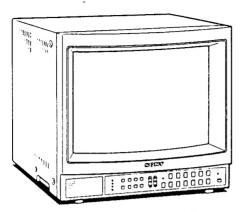
# SERVICE MANUAL



(PVM-1440QM/1442QM)

## AEP Model = PVM-1440QM Chassis No. SCC-C57A-A

PVM-1442QM Chassis No. SCC-C56A-A PVM-1444QM

Chassis No. SCC-C55A-A



(PVM-1444QM)

## **SPECIFICATIONS**

#### Inputs

#### For all models

VIDEO IN: BNC connector AUDIO IN: phono jack VIDEO: 4-pin connector AUDIO: phono jack

For Service Manuals
MAURITRON SERVICES 8 Cherry Tree Road, Chinnor Oxfordshire, OX9 4QY. Tel (01844) 351694 Fax (01844) 352554 email:- mauritron@dial.pipex.com

#### PVM-1444QM only

#### EXT SYNC: BNC connector

composite sync 1-4 Vp-p, negative, 75 ohms terminated. automatically released when cable is connected to the output ANALOG RGB/COMPONENT: BNC connector

NALOG RGB/COMPONENT: BNC connector R, G, B and Vchannels: 0.525 Vp.p. ±6 dB, non composite R.Y and B.Y channels: 0.525 Vp.p. ±6 dB (Standard color bar signal of 75-percent chrominance) When the composite signal is fed to the G or Y channels, the monitor can be activated in the internal sync mode. 75 ohms terminated, automatically released when a cable is connected to the output connector

#### PVM-1442QM only

EXT SYNC: BNC connector

composite sync 1-4 Vp-p, negative, 75 ohms terminated, automatically released when cable is connected to the output

ANALOG RGB: BNC connector

0.7 Vp-p, ±6 dB, non composite 75 ohms terminated, automatically released when cable is connected to the output connector
DIGITAL RGB: 9-pin connector

CTRL S: Minijack

#### PVM-1440QM

ANALOG RGB signal through AV: 0.7 Vp-p, ±6 dB, non composite,

- Continued on next page -

#### Video signal

Frequency response

Line input: More than 7 MHz (-3 dB)

Y/C input: More than 8 MHz (-3 dB)
Component input (Y/R-Y/B-Y): More than 8 MHz

(-3 dB)

R.G.B. input (analog): More than 9 MHz (-3 dB)

Chrominance subcarrier attenuation

3.58 MHz: Less than -30 dB (comb filter)

4.43 MHz: Less than -36 dB (trap filter) 3.58 MHz: 2 MHz equiband

Band pass 4.43 MHz: 2 MHz equiband

ninance time error
Composite: Less than ±100 ns

Y/C Video: Less than ±50 ns

Component: Less than ±50 ns

-4.5 to +6.5 dB (at 4.5 MHz) Synchronization
Line pull range
Horizontal: ±500 Hz
Vertical: 8 Hz

## Picture performance

7% overscan of CRT effective screen are Normal scan 3% underscan of CRT effective screen area Under scan

H. linearity error V. linearity error

Less than 4% Less than 5%

Convergence Central area: 0.6 mm Peripheral area: 0.8 mm

Raster size stability
H: 1.0%, V: 1.5%

High voltage regulation

0.6 W (Max.) Audio output

PVM-1444OM/PVM-1442QM; EBU CRT

Chromacity coordinates (EBU only)

|       | X     | Υ     |
|-------|-------|-------|
| Red   | 0.640 | 0.330 |
| Green | 0.290 | 0.600 |
| Blue  | 0.150 | 0.060 |

(tolerance ±0.01)

6,500°K/9,300°K (+8MPCD), selectable AC regulation range 220 - 240 V AC, 50/60 Hz

Approx. 75 Wh



TRINITRON® COLOR VIDEO MONITOR SONY

#### Outputs

#### For all models

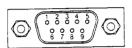
VIDEO OUT: BNC connector Loop-through AUDIO OUT: Phono jack Loop-through

#### PVM-1444QM only

EXT SYNC: BNC connector
Loop-through
ANALOG RGB/COMPONENT: BNC connector
Loop-through
CTRL S: Minijack
Loop-through

## Pin assignment

#### DIGITAL RGB connector (9-pin)



| Pin No. | Signal             | Signat level                              |  |  |
|---------|--------------------|---|--|--|
| 1       | GND (ground)       | GND                                       |  |  |
| 2       | GND for the signal | GND                                       |  |  |
| 3       | Red input          | Positive polarity (TTL level)             |  |  |
| 4       | Green input        |   |  |  |
| 5       | Blue input         | t   |  |  |
| 6       | intensity          |   |  |  |
| 7       | NC (no connection) | <del>-</del>                              |  |  |
| 8       | H-SYNC             | Positive or negative polarity (TTL level) |  |  |
| 9       | V-SYNC             | Same polarity as H-SYNC (TTL level)       |  |  |

#### Note

If the intensity function of Pin No. 6 is not used, set the internal switch on the Qd board to the B position, and connect the Pin No. 6 to the GND. With this setting, when the positive intensity signal synchronized to the characters on the screen is fed, the luminance of the characters will be

If the specific intensity function, such as that of an IBM microcomputer, is used, set the internal switch on the Qd board to the A position, and feed the intensity control signal to Pin No. 6.

PVM-1442QM only

General

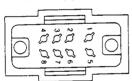
Dimensions Weight

EXT SYNC: BNC connector

Loop-through
ANALOG RGB: BNC connector
Loop-through
CTRL S: Minijack

Approx. 346 × 340 × 412 mm (w/h/d) (13³/4 × 13³/2 × 16³/4 inches) Approx. 16.5 kg (36 lb 6 oz)

#### VTR connector (8-pin)



| Pin No. | Signal      | Description   |  |  |  |
|---------|-------------|---|--|--|--|
| 1       | Audio input | -5 dBs, high input impedance (more than 47 kilohms) |  |  |  |
| 2       | Video input | Composite 1 Vp-p, sync negative, 75 ohms            |  |  |  |
| 3       | GND         | GND   |  |  |  |
| 4       | NC          | ——————————————————————————————————————              |  |  |  |
| 5       | GND         | GND   |  |  |  |
| 6       | GND         | GND   |  |  |  |
| 7       | GND         | GND   |  |  |  |
| 8       | GND         | GND   |  |  |  |

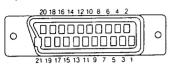
#### Y/C (Y/C separate) INPUT connector (4-pin)



| Pin No. | Signal                     | Description  |  |  |
|---------|----------------------------|--|--|--|
| 1       | Y-input                    | 1 Vp-p, sync negative, 75 ohms   |  |  |
| 2       | CHROMA sub-carrier-input   | 300 mVp-p, burst Delay time between Y and C: within 0±100 nsec., 75 ohms   |  |  |
| 3       | GND for Y-input            | GND  |  |  |
| 4       | GND for CHROMA-input       | GND  |  |  |
| •       | (Slot for internal switch) | Press the switch inside this stot. The signal from Y/C-INPUT connector has priority over the one from VTR (8-pin) connector. |  |  |

## AV (EURO-TV) connector (21-pin)

n in .



| Pin No. | Signal                          | Description   |  |  |
|---------|---------------------------------|---|--|--|
| 1       | Audio output B (right)          | Standard level:<br>0.5 Vrms<br>Output impedance:<br>Less than 1 k ohm*  |  |  |
| 2       | Audio input B (right)           | Standard level:<br>0.5 Vrms<br>Input impedance:<br>More than<br>10 k ohms *   |  |  |
| 3       | Audio output A (left)           | Standard level:<br>0.5 Vrms<br>Output impedance:<br>Less than 1 k ohm *   |  |  |
| 4       | GND for audio                   | GND   |  |  |
| 5       | GND for blue input              | GND   |  |  |
| 6       | Audio input A (left)            | Standard level:<br>0.5 Vrms<br>Input impedance: More<br>than 10 k ohms *  |  |  |
| 7       | Blue input                      | 0.7 V ±3 dB, 75 ohms  |  |  |
| 8       | Function select<br>(AV control) | High state (9.5 – 12 V):<br>Peri mode<br>Low state (0 – 2 V):<br>TV mode<br>Input impedance: More<br>than 10 k ohms<br>Input capacitance:<br>Less than 2 nF |  |  |

| Pin No. | Signal                    | Description  |  |  |
|---------|---------------------------|--|--|--|
| 9       | GND for green input       | GND  |  |  |
| 10      | NC                        |  |  |  |
| 11      | Green input               | (Same as Pin 7)  |  |  |
| 12      | NC                        |  |  |  |
| 13      | GND for red input         | GND  |  |  |
| 14      | GND for blanking input    | GND  |  |  |
| 15      | Red input                 | (Same as Pin 7)  |  |  |
| 16      | Blanking input            | High state (1 - 3 V)<br>Low state (0 - 0.4 V)<br>Input impedance:<br>75 ohms |  |  |
| 17      | GND for video output      | GND  |  |  |
| 18      | GND for video input       | GND  |  |  |
| 19      | Video output * *          | 1 V ± 3 dB, 75 ohms<br>Sync: 0.3 V (±3 dB)                                   |  |  |
| 20      | Video input               | 1 V ±3 dB, 75 ohms<br>Sync: 0.3 V (±3 dB)                                    |  |  |
| 21      | Common GND (plug, shield) | GND ·  |  |  |

<sup>\*</sup> at 20Hz - 20 kHz

Design and specifications subject to change without notice.

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## WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

## SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS
THAT ARE CRITICAL TO SAFE OPERATION ARE
IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE
REPLACED OR IMPROPER OPERATION IS SUSPECTED.

Outputs the video signal fed through the LINE A connector
 AV input mode is selected.

# SECTION 1 GENERAL

#### 1-1. FEATURES

This chart shows the various features which your model has (indicated as "Yes").

| Features  | PVM-1444QM                  | PVM-1442QM | PVM-1440QM |
|---|-----------------------------|------------|------------|
| Automatic white balance circuit                           | Yes                         | Yes        | Yes        |
| EBU phosphor  | Yes                         | Yes        | No         |
| Black-tinted Trinitron tube                               | No                          | No         | Yes        |
| Super Fine Pitch Trinitron picture tube                   | Yes                         | Yes        | No         |
| Analog RGB/component input/output                         | Yes                         | No         | No         |
| Analog RGB input/output                                   | No                          | Yes        | No         |
| Digital RGB input (9-pin)                                 | No                          | Yes        | No         |
| Y/C input (4-pin DIN)                                     | Yes                         | Yes        | Yes        |
| VTR input (8-pin)   | Yes                         | Yes        | Yes        |
| Control S input/output                                    | Yes                         | Yes        | No         |
| Automatic release of BNC-type input connector termination | Yes                         | Yes        | Yes        |
| Color systems available                                   | PAL, SECAM, NTSC358 NTSC443 |            |            |
| Comb filter   | Yes                         | Yes        | Yes        |
| Blue only mode  | Yes                         | Yes        | Yes        |
| Underscan mode  | Yes                         | Yes        | No         |
| Horizontal/vertical delay mode                            | Yes                         | Yes        | No         |
| External sync input/output                                | Yes                         | Yes        | No         |
| Color temperature selector                                | Yes                         | Yes        | Yes        |
| Light-touch picture adjustment buttons                    | Yes                         | Yes        | No         |
| AV (EURO-TV) connector (21-pin)                           | No                          | No         | Yes        |
| EIA standard 19-inch rack mounting                        | Yes                         | Yes        | Yes        |

#### Automatic white balance circuit

The automatic white balance circuit compensates for the beam distortion, secular distortion of the cathode-ray tube, etc., and always reproduces the same white display on the screen. This allows an extended use of the monitor.

## Super Fine Pitch Trinitron picture tube (PVM-1444QM/1442QM only)

The Super Fine Pitch Trinitron picture tube (0.25 mm aperture grill) gives high resolution picture. Horizontal resolution is more than 600 TV lines at the center of the picture. When used as a character display, up to 2.000 characters (80 characters/line × 25 lines) can be displayed with great clarity.

Analog RGB/component connector (PVM-1444QM only) Analog RGB and component signals of a video equipment can be input through this connector. The signals are selected by the COMPO/RGB selector on the rear panel.

Analog RGB connector (PVM-1442OM only)

Analog RGB signal of a video equipment can be input through this connector.

Digital RGB input connector (PVM-1442QM only)
Digital RGB signal from a microcomputer can be input through this connector.

#### Y/C input connector

The video signal split into the chrominance signal (C) and the luminance signal (Y) can be input through this connector, eliminating the interference between the two signals which tends to occur in a composite video signal and assuring the video quality.

#### VTR input connector

When connected to a VTR having the 8-pin TV connector, video and audio signals can be fed through this connector with a single cable.

#### Control S connector (except PVM-1440QM)

When this connector is connected to the "control S" output of other equipment, the remote controls of the aperture, brightness, chroma, phase, contrast and volume settings are possible.

#### Automatic release of BNC-type connector termination

The BNC-type input connector is terminated at 75 ohms inside when the BNC-type output connector is open. When a cable is connected to the BNC-type output connector, the 75-ohm termination is automatically released, and the signal input through the IN connector is output from the corresponding OUT connector.

#### Four color systems available

The monitor can display PAL, SECAM, NTSC358 and NTSC4.43\* signals. The appropriate color system is selected automatically.

 A signal of NTSC443 is obtained by playing back NTSCrecorded video cassettes with a video tape recorder/player especially designed for use with this system.

#### Comb Filter

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

#### Blue only mode

In the blue only mode, an apparent monochrome display is obtained with all three cathodes driven with a blue signal. This facilitates color saturation and phase adjustments and observation of VTR noise.

#### Underscan mode (except PVM-1440QM)

The signal normally scanned outside of the screen can be monitored in the underscan mode.



The bright scanning lines which may appear on the top edge of the screen when the monitor is in the underscan mode are caused by an internal test signal, rather than the input signal.

Horizontal/vertical delay mode (except PVM-1440QM) The horizontal and vertical sync signals can be checked simultaneously in the H/V delay mode.

#### External sync input (except PVM-1440QM)

When the EXT SYNC (or ANALOG/DIGITAL (EXT SYNC)) button is depressed, the monitor can be operated on the sync signal supplied from an external sync generator.

#### Color temperature selector

Color temperature of either 9,300°K or 6,500°K is selectable with the COLOR TEMP selector. For precise adjustment, use the BIAS and GAIN adjustment controls (except PVM-14400M).

## Light-touch picture adjustment buttons (except PVM-1440QM)

The aperture, brightness, chroma, phase, contrast and volume buttons can be adjusted by touching the buttons lightly. The adjusted settings will be stored in memory even when the monitor is turned off.

#### AV (EURO-TV) connector (PVM-1440QM only)

Analog RGB signals can be input through the 21-pin AV (EURO-TV) connector. This allows connection of peripheral equipments such as decoders.

#### Superimposition (PVM-1440QM only)

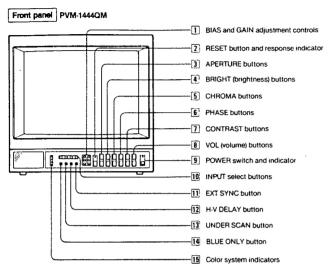
The data fed through the AV (EURO-TV) connector can be superimposed on the picture from the LINE A, LINE B or Y/C/VTR input.

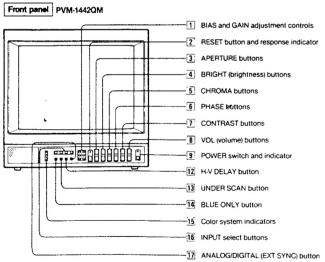
#### EIA standard 19-inch rack mounting

By using an optional MB-502A mounting bracket, the monitor can be mounted in an EIA standard 19-inch rack. An optional SLR-102 slide rail is also available. For details on mounting, see the appropriate instruction manual.

1

#### 1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS





#### 1 BIAS and GAIN adjustment controls

Used for white balance adjustment.

Gain and BIAS controls are provided for the R (red), G (green) and B (blue) screens.

BIAS: Adjust the white balance and brightness of the screen at the lowlight with these controls.

GAIN: Adjust the white balance and contrast of the screen at the highlight with these controls.

#### 2 RESET button and response indicator

Press to return the PHASE, CHROMA, BRIGHT and APERTURE control settings to the factory set levels. The response indicator flashes when the above buttons or the RESET button is pressed.

#### 3 APERTURE buttons

Press + for more sharpness or - for less.

#### 4 BRIGHT (brightness) buttons

Press + for more brightness or - for less.

#### **5 CHROMA buttons**

Press + for more color intensity or - for less.

#### 6 PHASE buttons

This button is effective only for the NTSC358 and NTSC443 color system.

Press GRN (green) to make the skin tones greenish or PUR (purple) to make them purplish.

#### Note

The APERTURE, CHROMA. PHASE control settings have no effect on the pictures of analog RGB or digital RGB signals.

#### **TCONTRAST** buttons

Press + to make the contrast, color intensity and brightness stronger or - to make them weaker.

#### ® VOL (volume) buttons

Press + for more volume or - for less.

#### 9 POWER switch and indicator

Depress to turn the monitor on.
The indicator will light up in green.
Press the switch again to turn the monitor off.

#### 10 INPUT select buttons

Press to select the program to be monitored.

A: for a signal fed through the LINE A connectors.

B: for a signal fed through the LINE B connectors.

Y/C/VTR: for a signal fed through the Y/C-INPUT connectors or VTR connector.

When both the Y/C-INPUT and VTR connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connector has priority over the one fed through the VTR connector.

ANALOG RGB/COMPONENT: for a signal fed through the ANALOG RGB/COMPONENT connectors. For connection, refer to the explanation of ANALOG RGR/COMPONENT connectors.

#### [1] EXT SYNC (external sync) button

Normally keep this button released (INT). The monitor operates on the sync signal from the displayed composite video signal.

To operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel, depress the button (EXT).

#### 12 H-V DELAY button

Depress to observe the horizontal and vertical sync signals at the same time.

The horizontal sync signal is displayed in the left quarter of the screen; the vertical signal is displayed near the center of the screen.

#### 13 UNDER SCAN button

Depress for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

#### 14 BLUE ONLY button

Depress to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase\*" control adjustments and observation of VTR noise.

\* "Phase" control adjustment is effective only for the NTSC signals

#### 15 Color system indicators

The indicator of the color system being received lights up in red.

#### 16 INPUT select buttons

Press to select the program to be monitored.

A: for a signal fed through the LINE A connectors.

B: for a signal fed through the LINE B connectors.

Y/C/VTR: for a signal fed through the Y/C-INPUT connectors or VTR connector.

When both the Y/C-INPUT and VTR connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connector has priority over the one fed through the VTR connector.

RGB: for a signal fed through the ANALOG RGB connectors or DIGITAL RGB connector.

#### 17 ANALOG/DIGITAL (EXT SYNC) button

This button functions as ANALOG/DIGITAL selector and EXT SYNC selector.

## As ANALOG/DIGITAL selector

Depress to monitor a signal fed through the ANALOG RGB connectors.

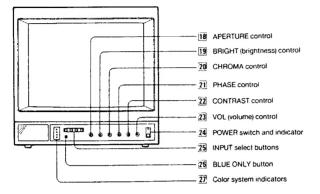
Release to monitor a signal fed through the DIGITAL RGB connector

#### For EXT SYNC selector

Depress to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel (EXT).

Release to operate the monitor on the sync signal from the displayed composite video signal (NT).

Front panel PVM-1440QM



#### 18 APERTURE control

Turn toward + for more sharpness or toward - for less.

#### 19 BRIGHT (brightness) control

Turn toward + for more brightness or toward - for less. Normally set this control at the center detent position.

#### 20 CHROMA control

Turn toward + for more color intensity or toward - for

#### 21 PHASE control

Turn toward GRN (green) to make the skin tones greenish or toward PUR (purple) to make them purplish.

#### Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures input through the ANALOG RGB IN connector.

#### 22 CONTRAST control

Turn toward + to make the contrast, color intensity and brightness stronger or toward - to make them weaker.

#### 23 VOL (volume) control

Turn toward + for more volume or toward - for less.

#### 24 POWER switch and indicator

Same as 9.

#### 25 INPUT select buttons

Press to select the program to be monitored. At for a signal fed through the LINE A connectors. B: for a signal fed through the LINE B connectors. Y/C/VTR: for a signal fed through the Y/C-INPUT connectors or VTR connector. When both the Y/C-INPUT and VTR connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connector has priority over the one fed through the VTR connector.

AV: for a signal fed through the AV (EURO-TV) connector. To superimpose the data fed through the AV (EURO-TV) connector over the picture being displayed:

1 Press A, B or Y/C/VTR to display the picture on which the data is to be superimposed. Be sure the SUPERIMPOSE selector on the rear

panel is set to ON. 2 Press AV.

The data is superimposed over the picture.

#### 26 BLUE ONLY button

Same as 14.

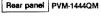
## 27 Color system indicators

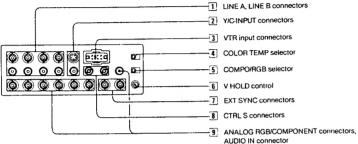
Same as 15.

#### Picture Adjustment Buttons

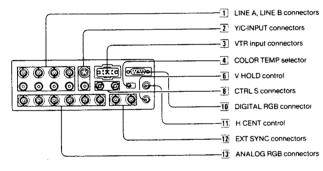
The picture adjustment buttons of each monitor operate in the following input mode (indicated as "Yes").

| Model      | Input mode                         | APERTURE | BRIGHT | CHROMA | PHASE              | CONTRAST | VOL |
|------------|------------------------------------|----------|--------|--------|--------------------|----------|-----|
| PVM-1444OM | • LINE A, LINE B<br>• Y/C<br>• VTR | Yes      | Yes    | Yes    | Yes<br>(NTSC only) | Yes      | Yes |
|            | Analog RGB                         | No       | Yes    | No     | No                 | Yes      | Yes |
|            | Component                          | Yes      | Yes    | Yes    | No                 | Yes      | Yes |
| PVM-1442QM | • LINE A, LINE B<br>• Y/C<br>• VTR | Yes      | Yes    | Yes    | Yes<br>(NTSC only) | Yes      | Yes |
|            | Digital RGB     Analog RGB         | No       | Yes    | No     | No                 | Yes      | No  |
| PVM-1440QM | • LINE A, LINE B<br>• Y/C<br>• VTR | Yes      | Yes    | Yes    | Yes<br>(NTSC only) | Yes      | Yes |
|            | AV<br>(RGB signal only)            | No       | Yes    | No     | No                 | Yes      | No  |

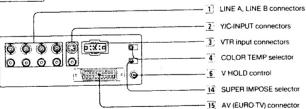




#### Rear panel PVM-1442QM







#### 1 LINE A, LINE B connectors

Two groups (A and B) of line input connectors for the composite video and audio signals and their loop-through output connectors.

To monitor the input signal fed through these connectors, press the A or B input select button on the front panel.

- VIDEO IN (BNC type): Connect to the video output of a wideo equipment, such as a VTR or a color video camera. For a loop-through connection, connect to the video output of another monitor.
- VIDEO OUT (BNC type): Loop-through output of the VIDEO IN connector. Connect to the video input for a VTR or another monitor. When the cable is connected to this connector, the

75-ohms termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.

- AUDIO IN (phono jack): Connect to the audio output of a VTR or to a microphone via a suitable microphone amplifier. For a loop-through connection, connect to the audio output of another monitor.
- AUDIO OUT (phono jack): Loop-through output of the AUDIO IN jack. Connect to the audio input of a VTR or another monitor.

#### 2 Y/C-INPUT connectors (4-pin)

VIDEO: Connect to the Y/C separate output of a video camera or a VTR.

AUDIO: Connect to the audio output of a video camera or a VTR.

To monitor the input signal fed through these connectors, press the Y/C/VTR button on the front panel.

#### [3] VTR input connectors (8-pin)

Line input for the video and audio signals. When connected to the 8-pin TV connector of a VTR, the video and audio playback signal from the VTR can be input through a single cable.

To monitor the input signal fed through this connector, press the YICAVTR button on the front panel, with the YICANTR connectors connected to no outputs. When both VTR and YICANTPUT connectors are connected to video equipment, the input signal fed through the YICANTPUT connectors has priority over the one fed through the VTR connectors.

#### TCOLOR TEMP (temperature) selector

Select the color temperature position, 9300°K or 6500°K.

#### [5] COMPO (component)/RGB selector

Set to COMPO to monitor component signal fed through the P/R-Y, G/Y, B/B-Y connectors. Set to RGB to monitor analog R/G/B signal fed through the P/R-Y, G/Y, B/B-Y connectors.

#### 6 V HOLD (vertical hold) control

Turn to stabilize the picture if it rolls vertically.

#### TEXT SYNC (external sync) connectors (BNC type)

- IN: Connect to the output of a sync generator.

  To use the sync signal fed through this connector, degress the EXT SYNC button.
- OUT: Loop-through output of the SYNC IN connector. Connect to the SYNC input of a video camera. When the cable is connected to this monitor, the 75-ohms termination of the input is released, and the signal input to the IN connector is output from this connector.

#### **8** CTRL S (control S) connectors (minijack)

For remote control of the APERTURE, BRIGHT,
CHROMA, PHASE, CONTRAST and VOL control buttons.
IN: Connect to the "control S" output of other equipment.

OUT: Connect to the CTRLS IN connector of another monitor by using a connecting cord (miniplug → miniplug).

## ANALOG RGB/COMPONENT connectors (BNC type) R/R-Y IN. G/Y IN. B/B-Y IN:

To monitor the analog R/G/B signal, connect to the analog R/G/B signal outputs of a video camera having no sync signal

Set the COMPO/IRGB selector on the rear panel to RGB and press the ANALOG RGB/COMPONENT button on the front panel. When the EXT SYNC button is released, the monitor operates on the sync signal from the G channel. To monitor the component signal, connect to the R-YY/B-Y component signal outputs of a BETACAM video camera. Set the COMPO/IRGB selector on the rear panel to COMPO and press the ANALOG RGB/COMPONENT button on the front panel. When the EXT SYNC button is released, the monitor operates on the sync signal from the Y channel.

#### R/R-Y OUT, G/Y OUT, B/B-Y OUT:

Loop-through outputs of the R/R-Y IN, G/Y IN, B/B-Y IN connectors.

For R/G/B signal, connect to the analog R/G/B signal inputs of a video camera.

For component signal, connect to the R-Y/Y/B-Y component signal inputs of a BETACAM video camera. When the cables are connected to these connectors, the 75-ohms termination of the input is automatically released, and the signal inputs to the R/R-Y IN, G/Y IN. B/B-Y IN connectors are output from these connectors.

**AUDIO IN:** Connect to the audio output of video equipment when the analog R/G/B or component signal is input.

To monitor the input signal fed through this connector, press the RGB button and keep the ANALOG/DIGITAL (EXT SYNC) button released.

#### Note

For connection, be sure to use an optional SMF-520 connecting cable.

#### 11 H CENT (horizontal centering) control

When a digital R/G/B signal is monitored, turn to center the picture if it is decentered.

## [12] EXT SYNC (external sync) connectors (BNC type) IN: Connect to the output of a sync generator.

To monitor the sync signal fed through this connector, degrees the ANALOG/DIGITAL (EXT SYNC) button.

OUT: Loop-through output of the SYNC IN connector.
Connect to the SYNC input of a video camera.

When the cable is connected to this connector, the 75-ohms termination of the input is released, and the signal input to the IN connector is output from this connector.

#### 13 ANALOG RGB connectors (BNC type)

R/G/B IN: Connect to the analog R/G/B outputs of a video carnera.

To monitor a signal fed through these connectors, press the RGB button and depress the ANALOG/DIGITAL (EXT SYNC) button.

R/G/B OUT: Loop-through outputs of the R/G/B IN connectors. Connect to the analog R/G/B inputs of a video camera.

When the cable is connected to these connectors, the 75-ohms termination of the input is released, and the signal input to the RVG/B IN connectors is output from these connectors.

#### 14 SUPERIMPOSE selector

Normally set to ON.

Set to OFF to display the analog RGB signal fed through the AV (EURO-TV) connector.

#### 15 AV (EURO-TV) connector (21-pin)

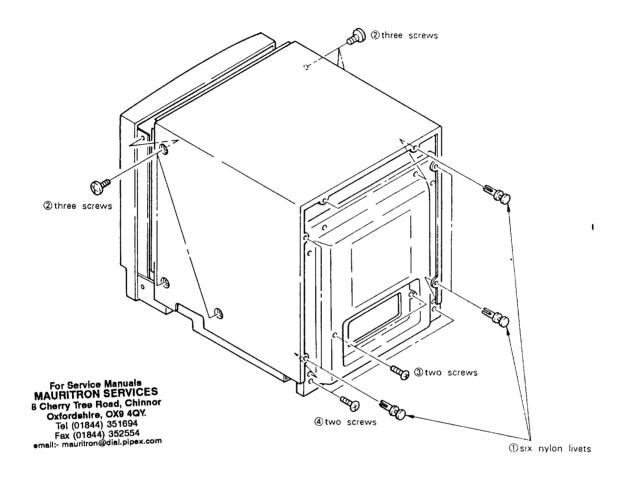
Connect to the 21-pin multiconnector of decoders.

α

# SECTION 2 DISASSEMBLY

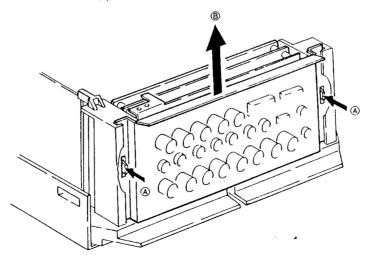
## 2-1. REAR COVER AND TOP COVER REMOVAL

1 17 e



## 2-2. TERMINAL BOARD REMOVAL

Note: When you remove terminal board, pull out A board a short distance.

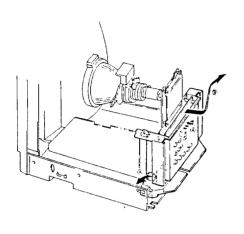


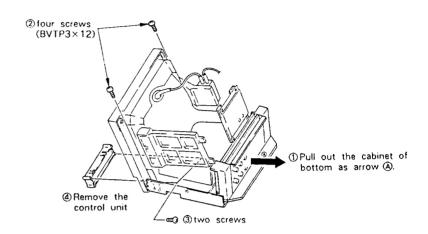
①Remove the terminal board as arrow ⓐ while push the two claws as arrow ⓐ.

## 2-3. BRACKET OF TERMINAL BOARD REMOVAL

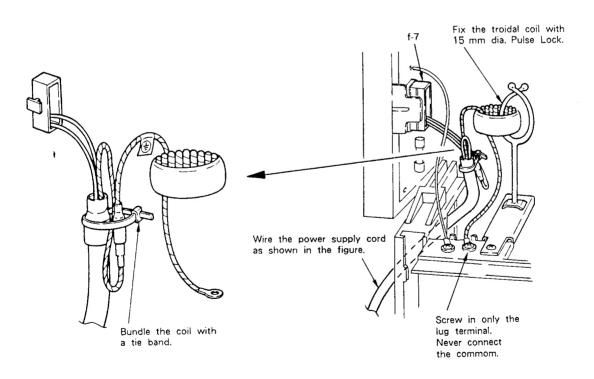
## 2-4. CONTROL UNIT REMOVAL

(1) Remove the bracket of terminal board as arrow (B) while extend two claws as arrow (A).





## 2-5. NOTE ON WIRING THE TROIDAL COIL AND IT'S PERIPHERAL PART



## 2-6. PICTURE TUBE REMOVAL

NOTE: Caution for ANODE CAP installation.

When you replace PICTURE TUBE or FBT, remove RTV on ANODE CAP so that PICTURE TUBE and FBT can be separated. Please adhere picture tube and anode cap in accordance with the following procedure.

ADHERING PROCEDURE OF ANODE CAP.

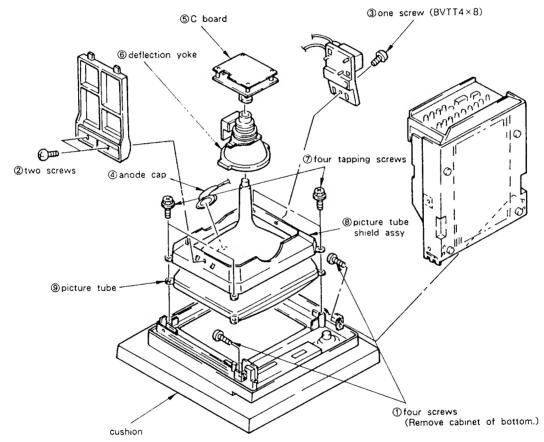
- 1. Clean PICTURE TUBE ANODE CAP with ethanol to remove original RTV.
- Dry clean face with air.

3. Use KE-490RTV (RTV silicone adhesive, SHIN-ETSU CHEMICAL).

Part. No. 7-322-065-19 <u>Description</u>

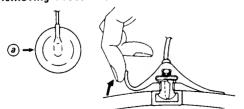
Silicone (RTV) KE-490W

- 4. Install ANODE CAP.
- 5. Adequately apply RTV to the entire picture tube anode area, piece the anode cap onto the picture tube and push it down securely so that no air pockets remain beneath the cap.
- 6. Dry more than 12 hours at room temperature.

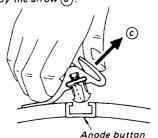


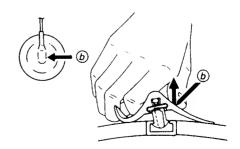
## ANODE CAP REMOVAL

Removing Procedures



(1) Turn up one side of the rubber cap in the direction indicated by the arrow (a).





- 2) Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow (b).
- (3) When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

## SECTION 3

## SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless ontherwise noted.

The control and switch below should be set as follows unless otherwise noted:

CONTRAST control ...... 80% BRIGHTNESS control ..... 50%

Perform the adjustments in order as follows:

3-1. Beam Landing

3-2. Convergence

3-3. Focus

3-4. White Balance

Note: Test Equipment Required.

- 1. Color Bar/Pattern Generator
- 2. Degausser
- 3. Color Annalyzer (Minolta)
- 4. Luminance Level Meter
- 5. Oscilloscope

#### Precaution

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

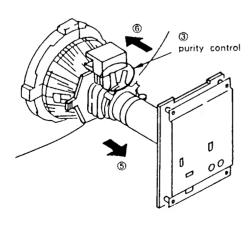
## 3-1. BEAM LANDING

 Receive an entirely white signal with the pattern generator.

CONTRAST ..... MAX.

BRIGHTNESS ..... set easy to observe

- 2. Adjust the focus and the horizontal convengence roughly.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig. 3-1.
- 4. Switch over the pattern generator to green.
- 5. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig. 3-2)
- 6. Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
- 7. When landing at the corners is not right, correct by using the magnet. (Fig. 3-3)
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.



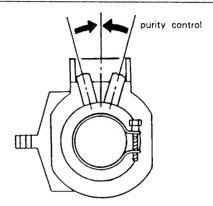


Fig. 3-1

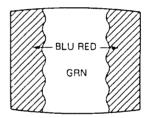


Fig. 3-2

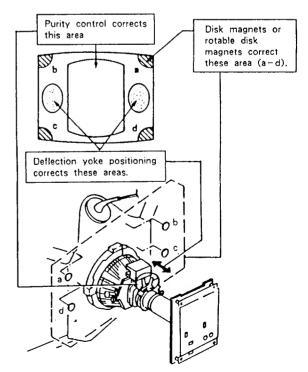
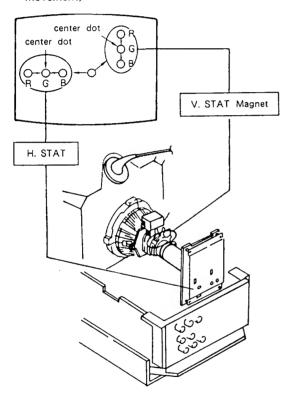


Fig. 3-3

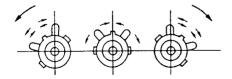
## 3-2. CONVERGENCE

- (1) Horizontal and Vertical Static Convergence Adjustment on the Center of Screen.
- Before starting, perform V. SIZE, V. CENT, H. SIZE, H. CENT and Screen Distortion adjustment rightly.
   (Static Convergence Adjustment)
- 1. Receive a dot signal and Set CONTRAST to normal.
- 2. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)

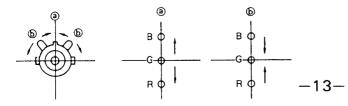


If the red, green and blue dots do not coincide
on the center of screen with H. STAT VR, perform
adjustment using V. STAT at the same time while
tracking.

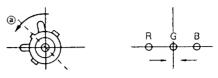
Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



- When the V. STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.
- ① When moving the V. STAT Magnet open or close.



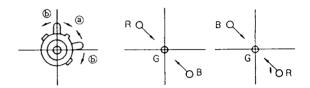
When moving the V. STAT magnet counterclockwise



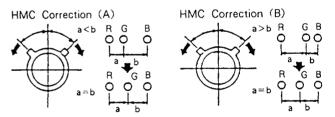
3 When moving the V. STAT magnet clockwise.



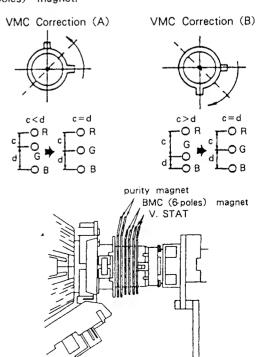
4 When tilt the V. STAT magnet and open or close.



- ※ If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.
- HMC and VMC correction for BMC (6-Poles) magnet.
- HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6poles) magnet.



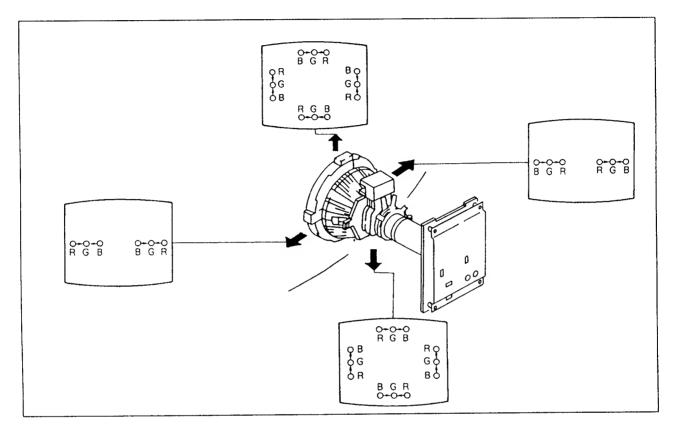
2. VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



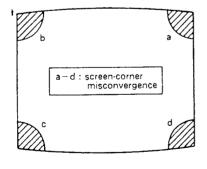
## (2) Horizontal and Vertical Dynamic Convergence Adjustment the environs of the Screen

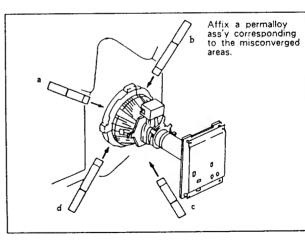
## (Dynamic Convergence Adjustment)

- 1. Loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.
- 3. Move the deflection yoke for best convergence.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



## (3) Screen-corner Convergence





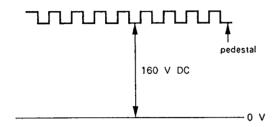
## 3-3. FOCUS

- 1. Receive the broadcast.
- 2. CONTRAST ..... Normal
- Adjust RV707 so that the focus on the center of screen becomes to the best.

## 3-4. WHITE BALANCE

### (Screen (G2) Voltage)

- 1. Receive a dot signal with the pattern generator.
- 2. Switch over COLOR TEMP to 6500° K.
- Using oscilloscope, adjust with RV1710 (SUB BRT) on V board so that the green cathode voltage against ground becomes 160 V DC.
- 4. Similarly, adjust with RV1704 (B BKG) and RV1705 (R BKG) on V board so that the blue and red cathode voltages become 160 V DC.



Observing the screen, adjust with RV709 (SCREEN) on C board so that the back-ground of the dot signal is bright dimly.

### (White Balance)

- Receive a color-bar pattern signal with the pattern generator, and to make black and white screen by chroma switch off.
- 2. BRIGHTNESS ..... 50%
  - CONTRAST ..... Minimum
  - CHROMA ..... 50%
  - DRIVE volume

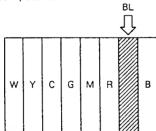
(V BOARD) ..... mechanical center

BKG volume

(V BOARD) ..... mechanical center

 Adjust RV1710 (SUB BRIGHT) so that the blue stripe portion on the color-bar pattern signal is bright dimly.

color-bar pattern



- 4. Receive an entirely white signal from the pattern generator.
- 5. CONTRAST ..... 70%
- Using the luminance level meter, adjust the luminance level of the pattern generator becomes
   Nit. (The condition the screen is bright dimly.)

- 7. Adjust with the color analyzer the white balance.
- 8. Reset the luminance level of the pattern generator, and adjust the white balance. (High light condition.)

## SECTION 4

## SAFETY RELATED ADJUSTMENTS

CONFIRMATION WHEN REPLACING H.V.R (High Voltage Resistor)

The following adjustment should be confirm the output voltage when replacing HVR.

- 1. Receive an entire white signal.
- CONTRAST ..... Maximum
  - BRIGHTNESS ..... Maximum
- 3. Connect a digital multimeter to the A-20 connector side lead of R804.
- 4. Confirm the voltage is  $14.1 \pm 1.0 \text{ V DC}$ .

## **%R500, CONFIRMATION METHOD (HOLD-DOWN** CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components.

on A board

IC501, Q503, Q504, Q505, Q506, D509, D510, C505, C520, C524,

C525, C526, C527, C528, C529,

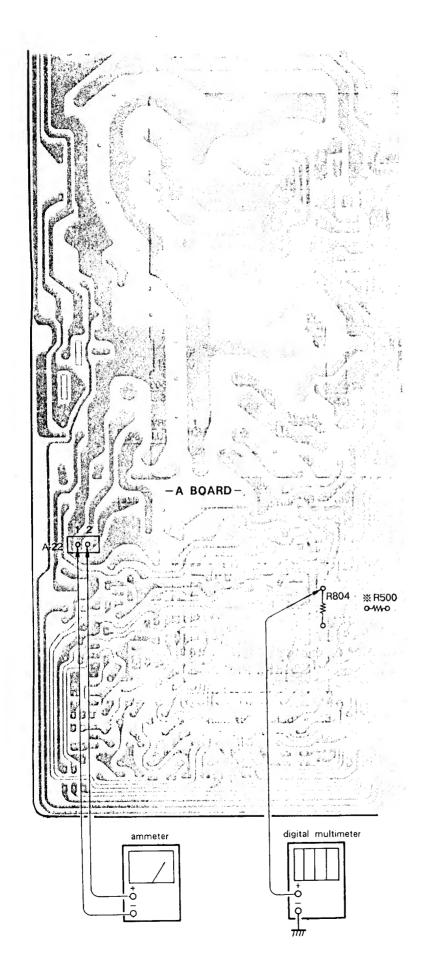
C530, C531, R500, R506, R516,

R517, R518, R519, R520, R521,

R522, R523, R524, R525, R526,

R528, R804, NL501, HVR

- 1. Receive an entire white signal.
- 2. CONTRAST ..... Maximum
  - BRIGHTNESS ..... Maximum
- 3. Connect a digital multimeter to the A-20 connector side lead of R804.
- 4. Confirm the voltage is  $14.1 \pm 1.0 \text{ V DC}$ .
- 5. Receive a dot signal.
- 6. Disconnect A-22 connector (ABL JIG) on A board and connect an ammeter.
- 7. Adjust BRIGHTNESS and CONTRAST so that the current is 70  $\pm$ 30  $\mu$ A.
- 8. Apply an external DC voltage gradually to the A-20 connector side lead of R804, and when the voltage becomes 16.4 ±0.1 V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- 9. With the same procedure of item 8, when the voltage becomes 15.8  $\pm$ 0.1 V DC, confirm the HOLD-DOWN circuit doesn't operate.
- 10. Receive an entire white signal.
- 11. Adjust with BRIGHTNESS and CONTRAST volumes so that the current is 600  $\pm40~\mu$  A.
- 12. Apply DC voltage to the A-20 connector side lead of R804, and when the voltage becomes 15.8  $\pm 0.1$ V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- 13. With the same procedure of item 8, when the voltage becomes 15.2  $\pm$ 0.1 V DC, confirm the HOLD-DOWN circuit doesn't operate.
- 14. When step 4 to 13 is not satisfied, readjustment should be performed by altering the resistance value of R500 (%).

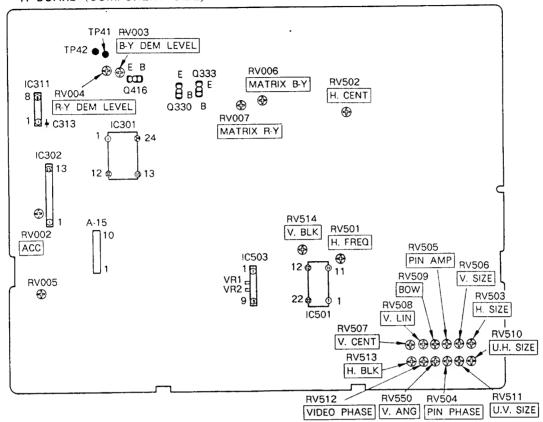


## SECTION 5

## CIRCUIT ADJUSTMENTS

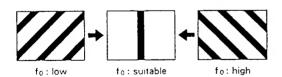
## 5-1. A BOARD ADJUSTMENTS

## -A BOARD (COMPONENT SIDE) -



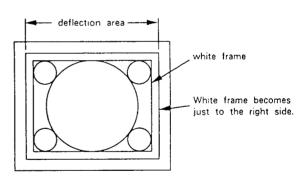
## HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV501)

- 1. Receive a monoscope signal.
- 2. Connect pin ① of IC501 to ground with 100  $\mu\,\text{F}/$  16 V electrolytic capacitor.
- 3. Adjust RV501 so that the screen streaming stops



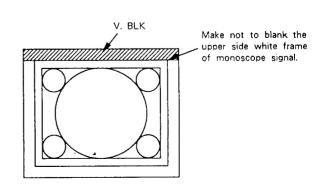
## H-V BLK ADJUSTMENTS (RV510, RV512, RV513, RV514)

- 1. Receive a monoscope signal.
- 2. Set U/S (Under Scan) switch to Under mode.
- 3. CONTRAST ..... Minimum
- 4. Adjust RV510 (U. H. SIZE) so that the white frame of monoscope signal becomes visible.
- Adjust RV512 (Video Phase) so that the white frame of monoscope signal becomes to the right side just on the screen.



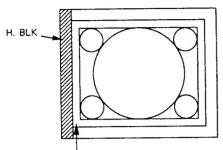
## 6. V. BLK Adjustment (RV514)

(1) Adjust RV514 (V. BLK) so that the upper side white frame of monoscope signal is not blanked.



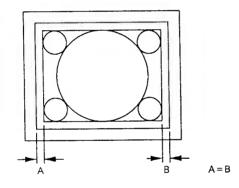
For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- mauritron@dial.pipex.com

- 7. H. BLK Adjustment (RV513)
- (1) Adjust with RV513 (H. BLK) so that the vertical line of the white frame of monoscope signal is blanked as following figure.



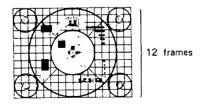
Make to blank the vertical line of the white frame of monoscope signal.

- 8. Screen Phase Adjustment (RV512)
- (1) Adjust RV512 (Video Phase) so as to equalize the width of the white frame of monoscope signal on both sides of screen right and left.

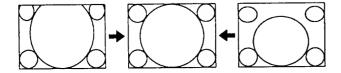


VERTICAL DEFLECTION PART ADJUSTMENTS (RV506, RV507, RV508, RV511)

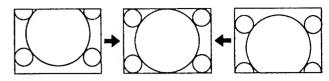
- 1. Receive a monoscope signal.
- 2. CONTRAST ..... 70%
  - BRIGHTNESS ..... 50%
- 3. Adjust RV506 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.



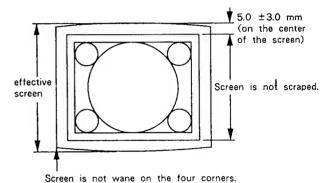
4. Adjust RV508 (V. LIN) the vertical linearity.



5. Adjust RV507 (V. CENT) the vertical position.

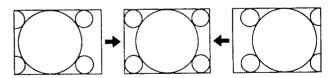


- 6. Adjust RV506 (V. SIZE) so that the vertical size of monoscope signal becomes 11.75 ±0.2 frames.
- 7. Set U/S (Under Scan) switch to Under mode.
- 8. Adjust with RV511 (U.V. SIZE) as follows.

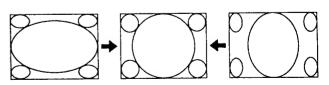


HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV502, RV503, RV504, RV505, RV509, RV510, RV550)

- 1. Receive a monoscope signal.
- 2. CONTRAST ..... 70%
  - BRIGHTNESS ..... 50%
- 3. H. CENT Adjustment (RV502)
- (1) Adjust RV502 (H. CENT) the horizontal position.



- 4. H. SIZE Adjustment (RV503)
- (1) Adjust RV503 (H. SIZE) the horizontal size.



- 5. PIN AMP, PIN PHASE, V. ANG, BOW Adjustments (RV505, RV504, RV509, RV550)
  - PIN AMP (RV505)



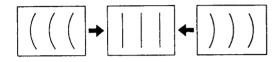
• PIN PHASE (RV504)



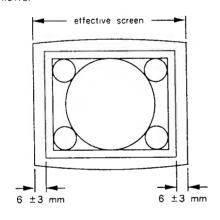
• V. ANG (RV550)



• BOW (RV509)

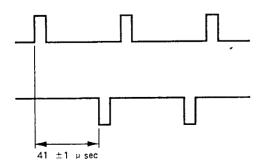


- 6. Adjust RV503 (H. SIZE) so that the horizontal size becomes 15.75  $\pm$ 0.2 frames.
- 7. Set U/S (Under Scan) switch to Under mode.
- 8. Adjust RV510 (U.H. SIZE) the Under H. SIZE as follows.

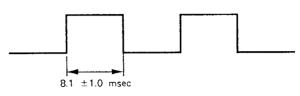


## H-V DELAY ADJUSTMENT (VR1, VR2)

- 1. Receive a monoscope signal.
- 2. CONTRAST ..... 70%
  - BRIGHTNESS ..... 50%
- 3. Set H-V DELAY switch to DELAY mode.
- 4. H. DELAY Adjustment (VR1)
- (1) Connect an oscilloscope to pin ② (SYNC SEP) and pin ⑨ (H. SYNC) of IC503.
- (2) Adjust VR1 of IC503 to become 41  $\pm 1~\mu\,\text{sec}$  as follows.

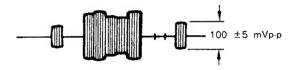


- 5. V. DELAY Adjustment (VR2)
- (1) Connect an oscilloscope to pin 6 of IC503.
- (2) Adjust VR2 of IC503 to become 8.1  $\pm 1.0$  msec as follows.



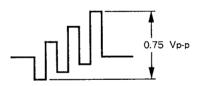
## ACC ADJUSTMENT (RV002)

- 1. Receive a color-bar signal (EIA color-bar).
- 2. Connect an oscilloscope to the IC302 side lead of C313.
- 3. Adjust RV002 so that the burst signal level becomes  $100 \pm 5 \text{ mVp-p.}$



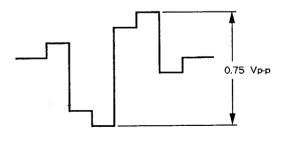
## B-Y DEM LEVEL ADJUSTMENT (RV003)

- 1. Receive a color-bar signal (EIA 75% chroma color-bar).
- 2. Connect an oscilloscope to TP42 (B-Y).
- 3. Adjust RV003 so that the B-Y waveform becomes 0.75 Vp-p.



### R-Y DEM LEVEL ADJUSTMENT (RV004)

- Receive a color-bar signal (EIA 75% chroma colorhar)
- 2. Connect an oscilloscope to TP41 (R-Y).
- 3. Adjust RV004 so that the R-Y waveform becomes 0.75 Vp-p.

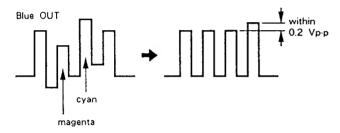


## MATRIX ADJUSTMENT (RV006, RV007)

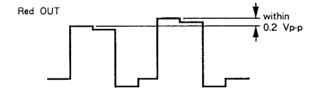
1. Receive a color-bar signal.

white peak: 75% black level: 0% chroma max.: 75% chroma min.: 0%

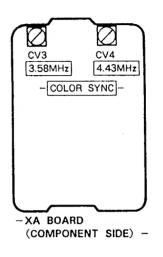
- 2. CONTRAST ..... 70%
- Connect an oscilloscope to pin (§) (B OUT) of A-15.
- 4. Adjust RV006 (B-Y) so that the BLUE OUT waveform becomes flat as following figure.



- When there is difference between cyan portion and magenta portion, adjust with RV006 while tracking with PHASE volume for user control.
- 6. Connect an oscilloscope to pin 3 (R-Y) of A-15.
- 7. Adjust RV007 (R-Y) so that the RED OUT waveform becomes flat as following figure.

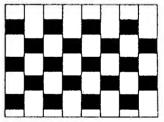


## 5-2. XA BOARD ADJUSTMENT



COLOR SYNCHRONIZATION (CW) ADJUSTMENT (CV3, CV4)

- 1. Short-circuit pins (9) and (10) of IC301 on A board.
- 2. Connect pin 3 of IC311 on A board to +12 V line via 4.7 k $\Omega$  resistor.
- 3. Short-circuit base and emitter of Q416 on A board.
- 4. 3.58 MHz Adjustment (CV3)
- (1) Receive a color-bar signal (EIA color-bar).
- (2) Adjust CV3 the color synchronization.

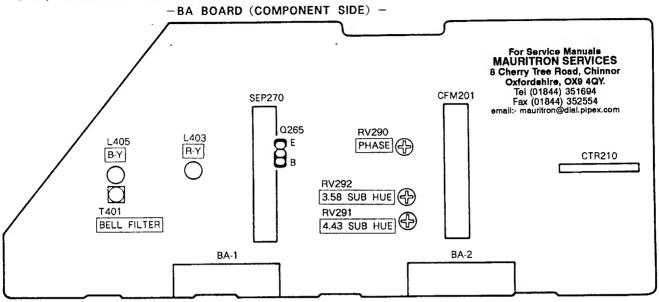


Adjust so that color stripes disappear and the hue change is stabilized extremery.

- 5. 4.43 MHz Adjustment (CV4)
- (1) Receive a color-bar signal (EBU color-bar).
- (2) Adjust CV4 the color synchronization.
- 6. Remove the short-circuit positions pins (9) and (10) of IC301 and base and emitter of Q416.

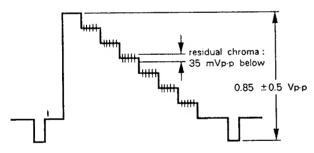
CAUTION: This adjustment (XA board adjustment) should be made earlier than all adjustments of color.

## 5-3 BA BOARD ADJUSTMENTS



## NTSC 3.58 MHz ADJUSTMENT (RV292)

- 1. Receive NTSC 3.58 color-bar signal.
- 2. Connect an oscilloscope to pin (§) (COMPOSITE IN) of BA-2 connector.
- 3. Confirm the Y-OUT is  $0.87 \pm 0.5 \text{ Vp-p.}$
- Confirm the residual chroma is 35 mVp-p below.
   When it is above 35 mVp-p, adjust with RV1 and T1 inside CFM201 while tracking.



- 5. Connect an oscilloscope to pin (5) (B-OUT) of A-15 connector.
- Adjust RV292 (3.58 SUB HUE) so that the BLUE OUT waveform level becomes flat as following figure.



Note: CONTRAST-----normal condition HUE-----Normal condition

## NTSC 4.43 MHz ADJUSTMENT (RV291)

1. Receive NTSC 4.43 color-bar signal.

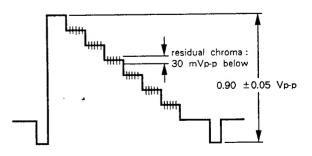
- Confirm the voltage on pin (a) of CTR210 is above 5.0 V DC, and on pin (5) of CTR210 is below 0.1 V DC
- 3. Connect an oscilloscope to pin (5) of A-15 connector.
- Adjust RV291 (4.43 SUB HUE) so that the BLUE OUT waveform level becomes flat as following figure.



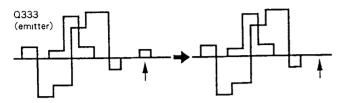
Note: CONTRAST······Normal condition HUE······Normal condition

## PAL ADJUSTMENTS (RV290)

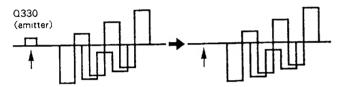
- 1. Receive NTSC 4.43 color-bar signal.
- Confirm the voltage on pin @ of CTR210 is above
   V DC, and on pin ⑤ of CTR210 is below 1.0
   V DC.
- 3. Connect an oscilloscope to pin (1) of BA-2 connector.
- 4. Confirm the Y-OUT is 0.90  $\pm$ 0.05 Vp-p and the residual chroma is below 30 mVp-p.



- 5. ANTI-PAL Adjustment (RV290)
- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q333 on A board, and adjust RV290 (PHASE) so that R-Y anti-PAL portion becomes flat as following figure.

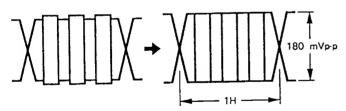


(3) Connect an oscilloscope to emitter of Q330 on A board, and adjust RV2 inside SEP270 so that B-Y anti-PAL portion becomes flat as following figure.

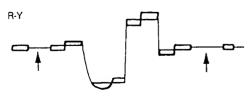


## SECAM ADJUSTMENTS (T401, L403, L405)

- 1. Receive SECAM color-bar.
- 2. Bell Filter Adjustment (T401)
- (1) Connect an oscilloscope to emitter of Q265.
- (2) Adjust T401 (Bell Filter) so that the chroma waveform becomes smooth.

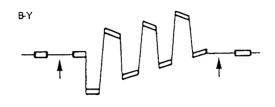


- 3. Color Balance Adjustment (L403)
- (1) Connect an oscilloscope to pin (R-Y) of BA-1 connector.
- (2) Adjust L403 (R-Y) so that the non-colored portion level becomes flat.



(3) Connect an oscilloscope to pin (B (B-Y) of BA-1 connector.

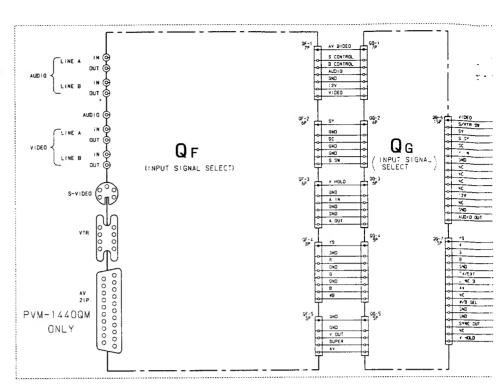
(4) Adjust L405 (B-Y) so that the non-colored portion level becomes flat.

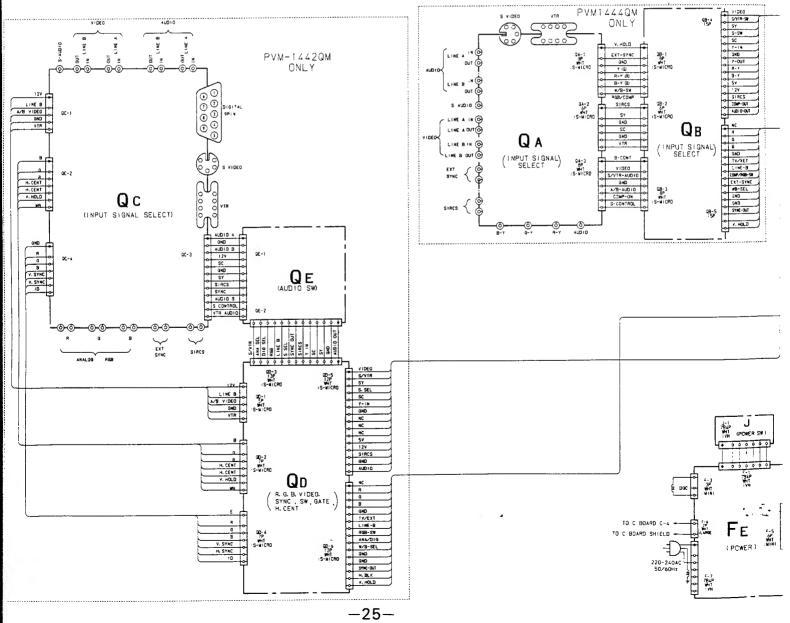


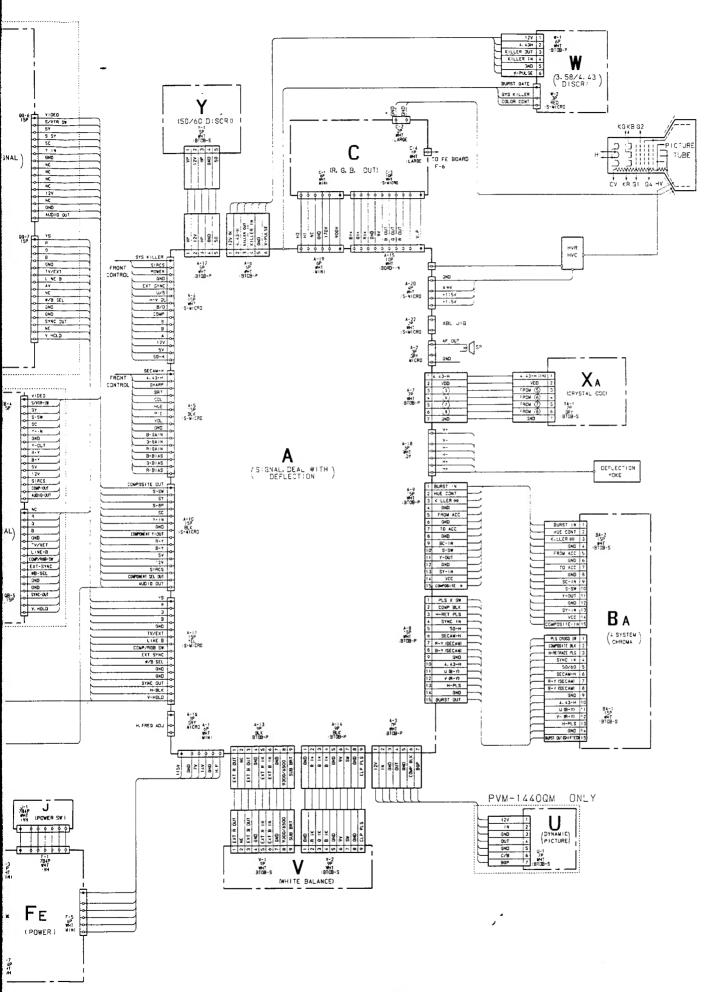
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## 6-1. FRAME SCHEMATIC DIAGRAM

For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordehire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email: mauritron@dial.pipex.com

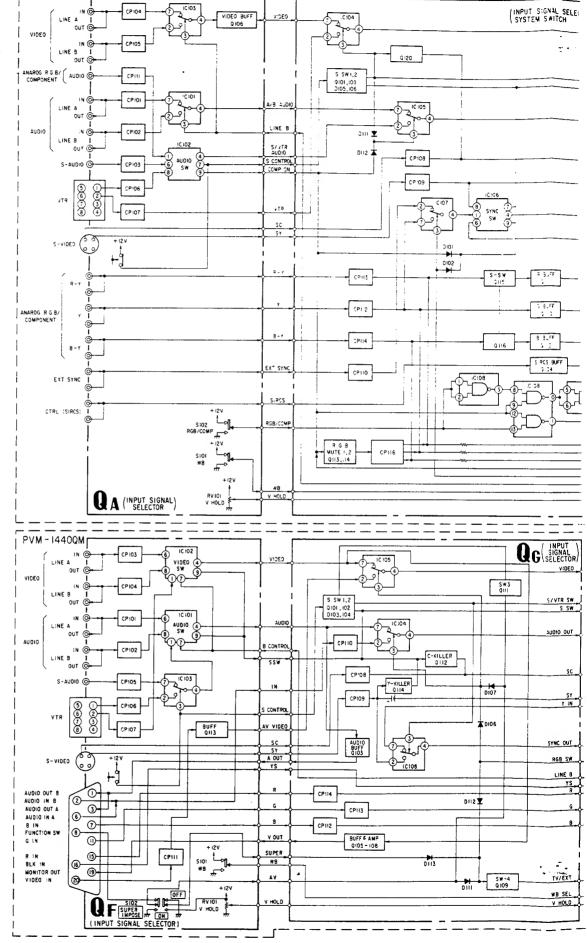


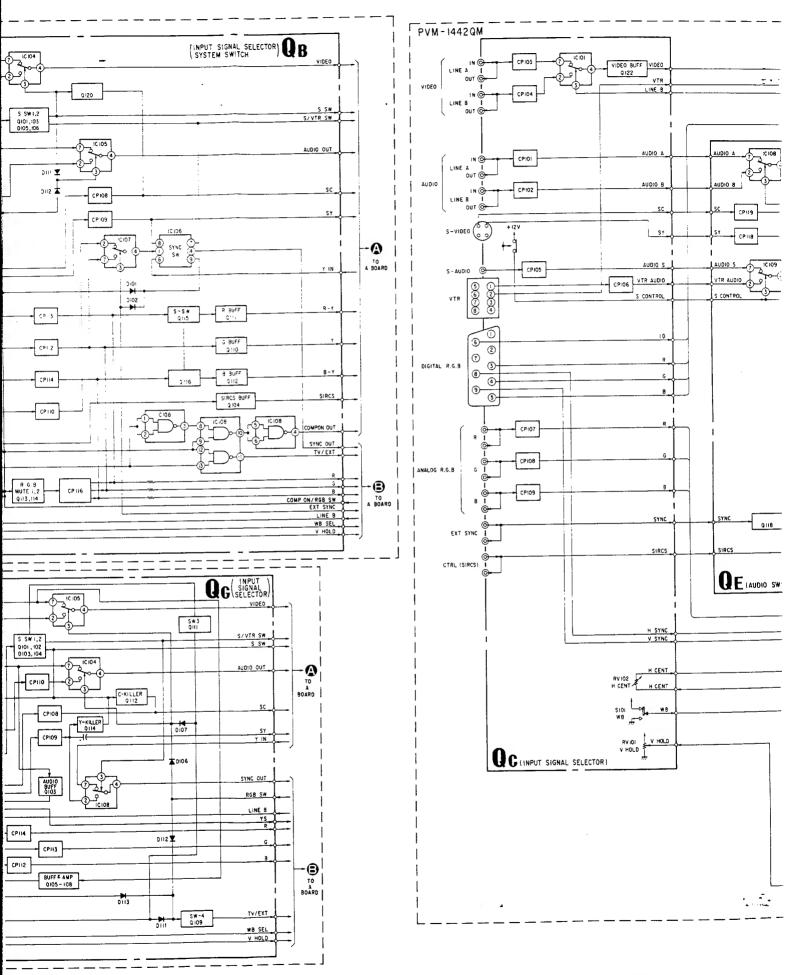


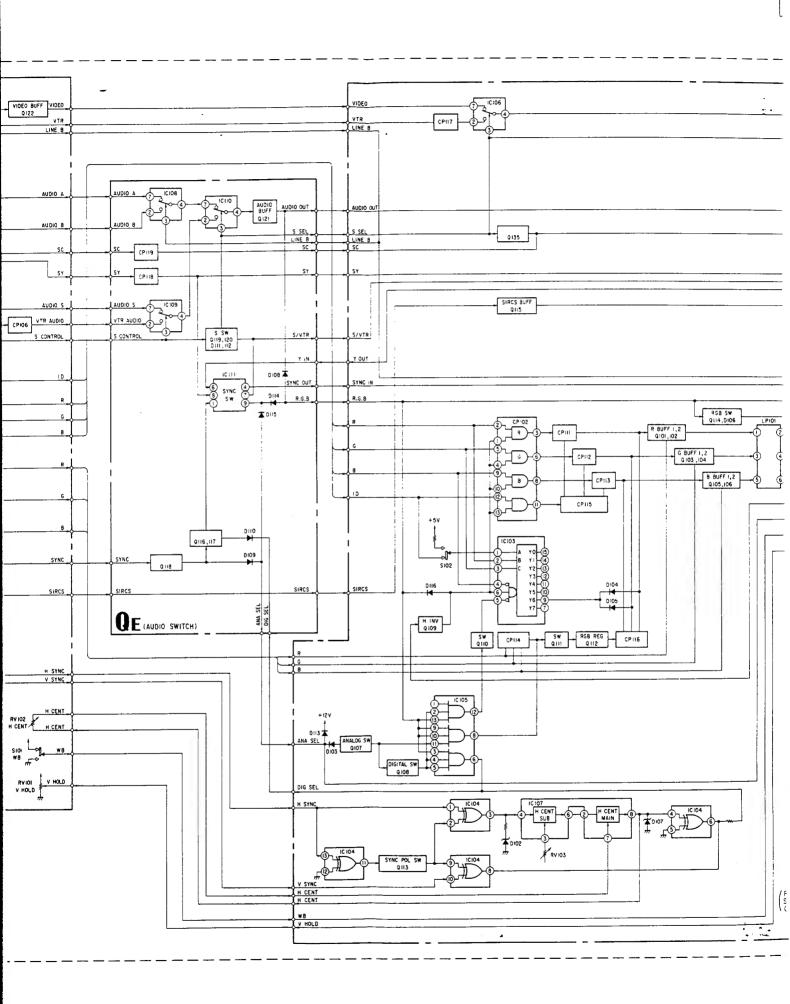


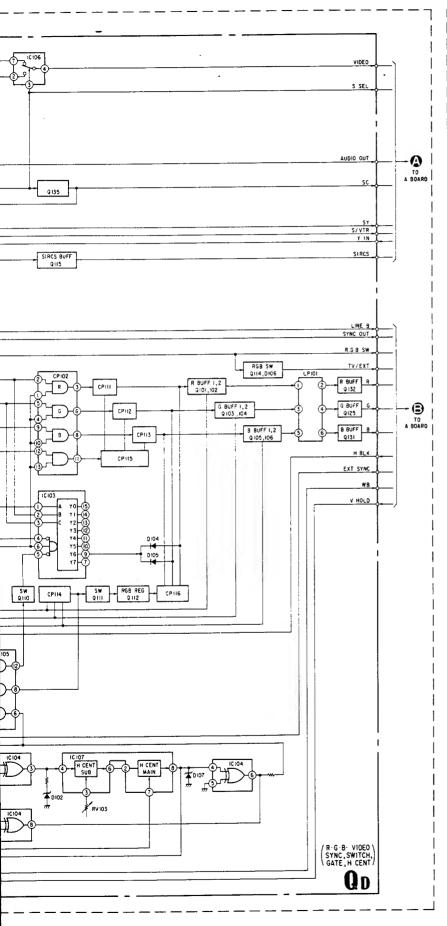
## 6-2. BLOCK DIAGRAMS

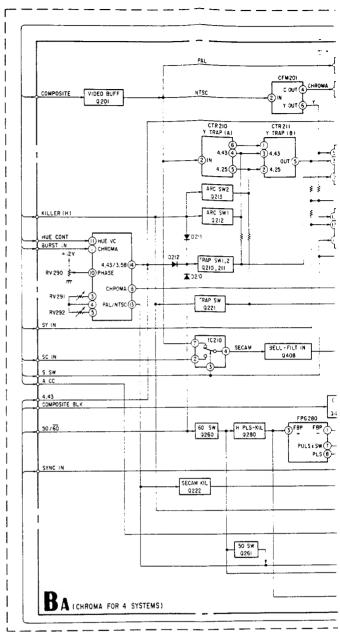
PVM - 14440M

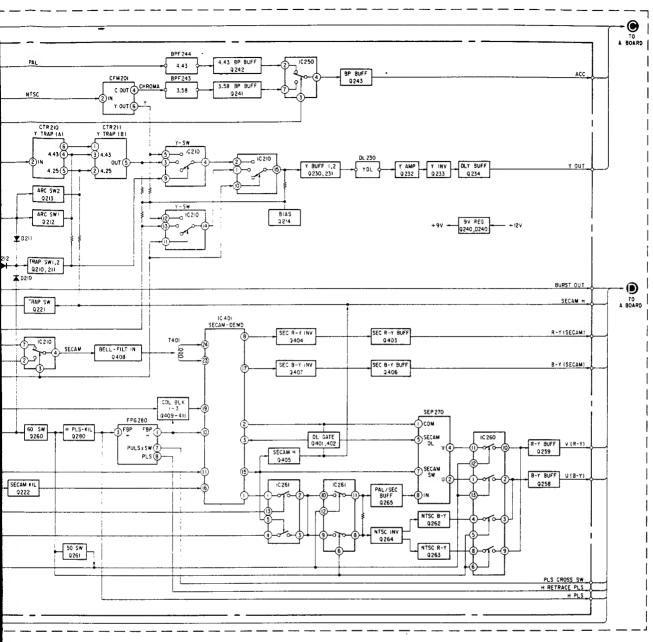


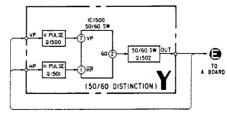




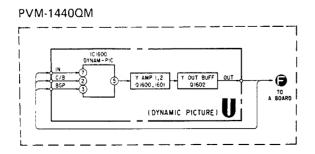




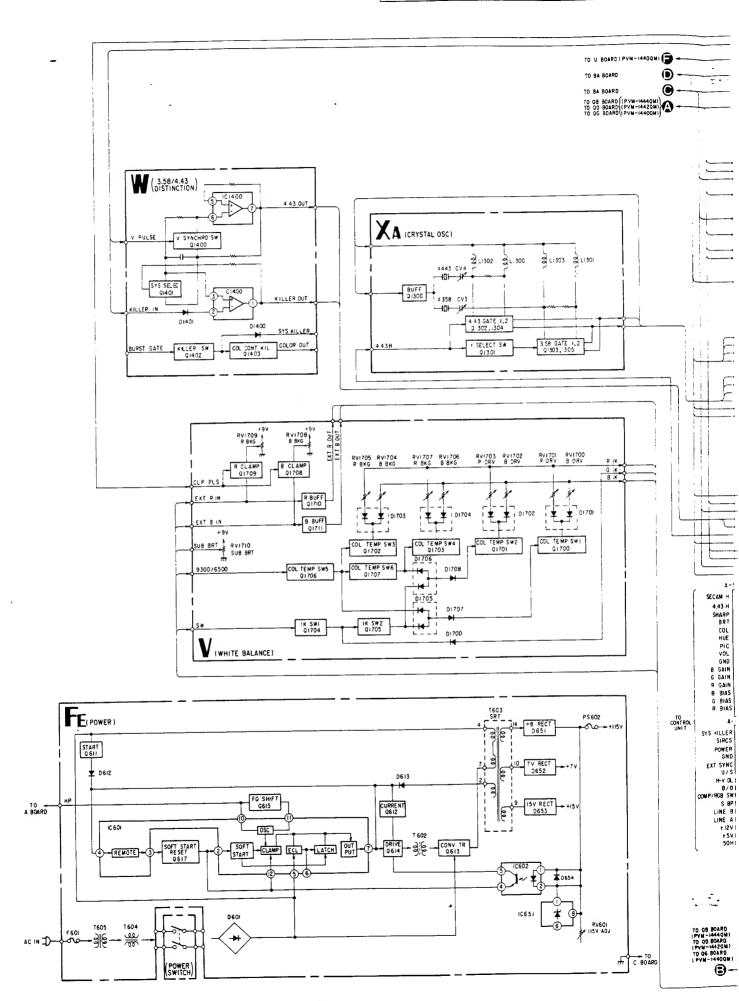


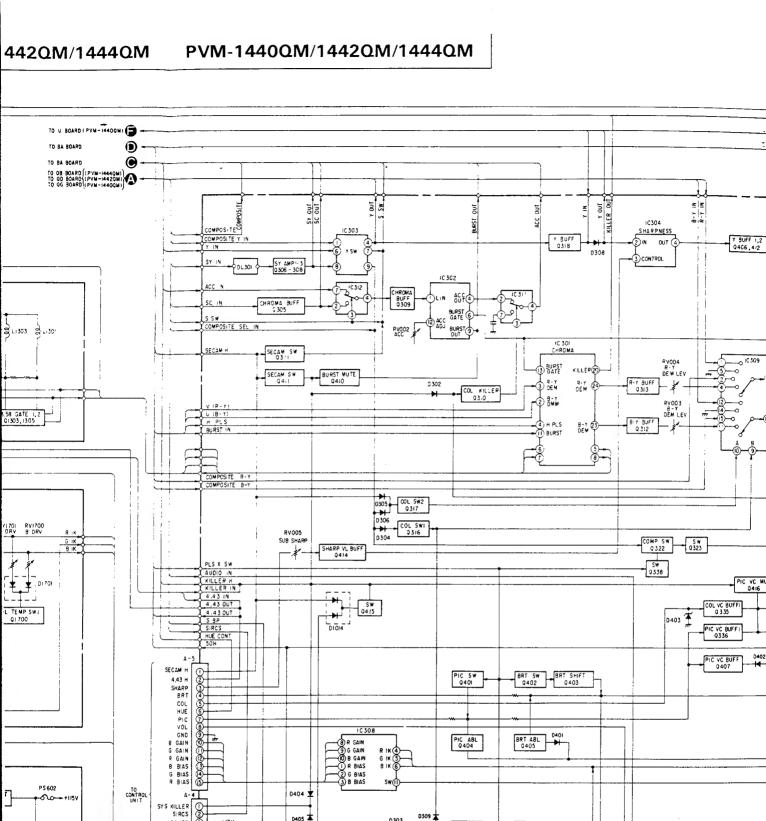


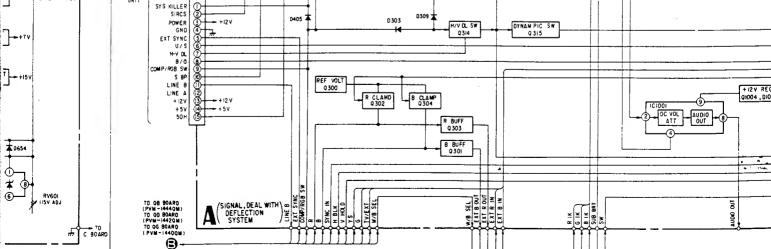
- True



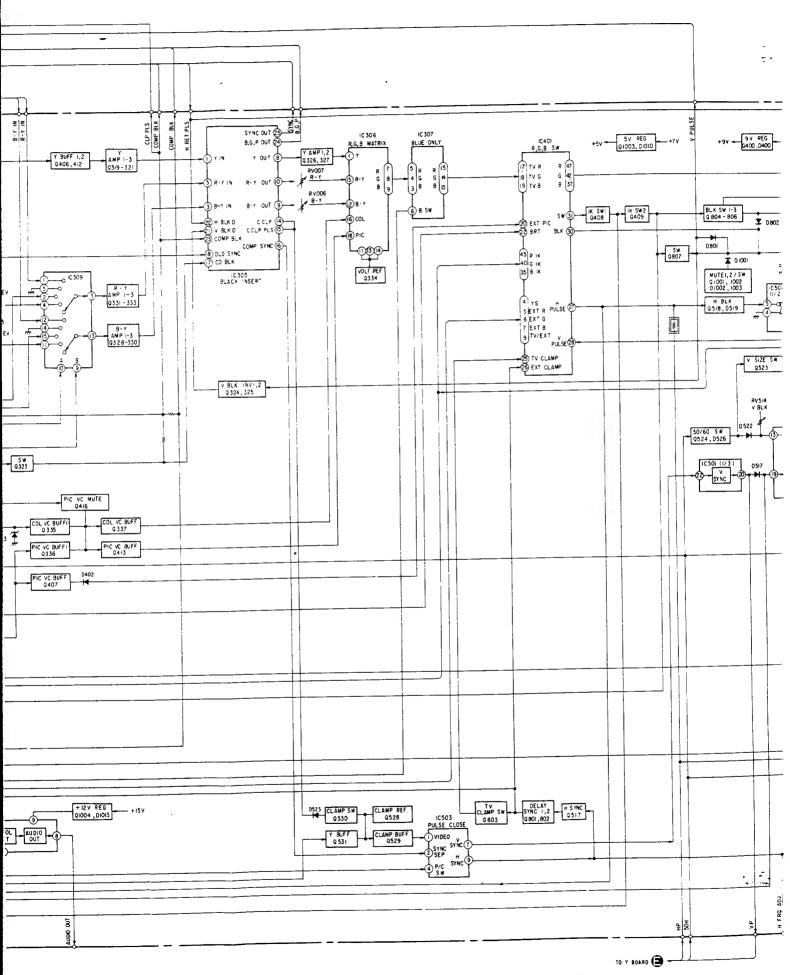
P'

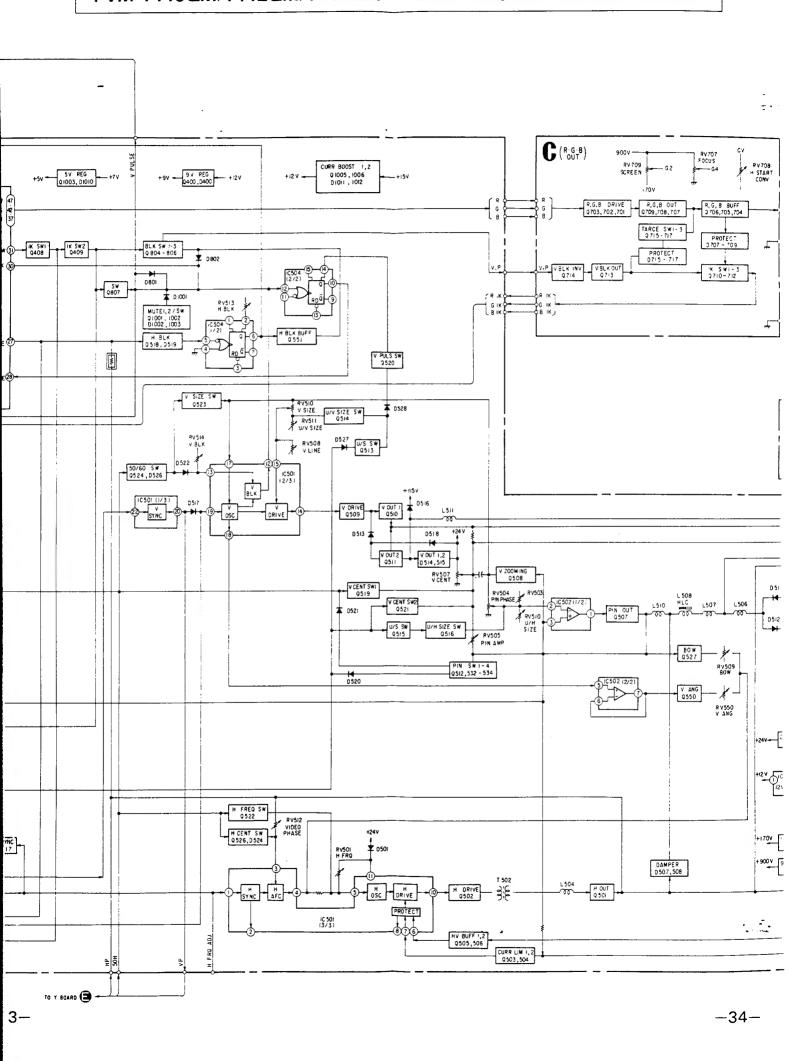


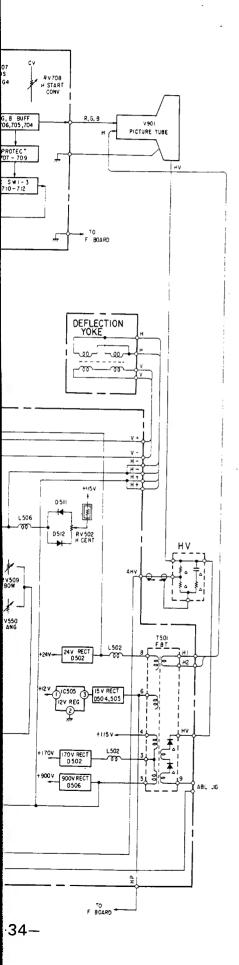




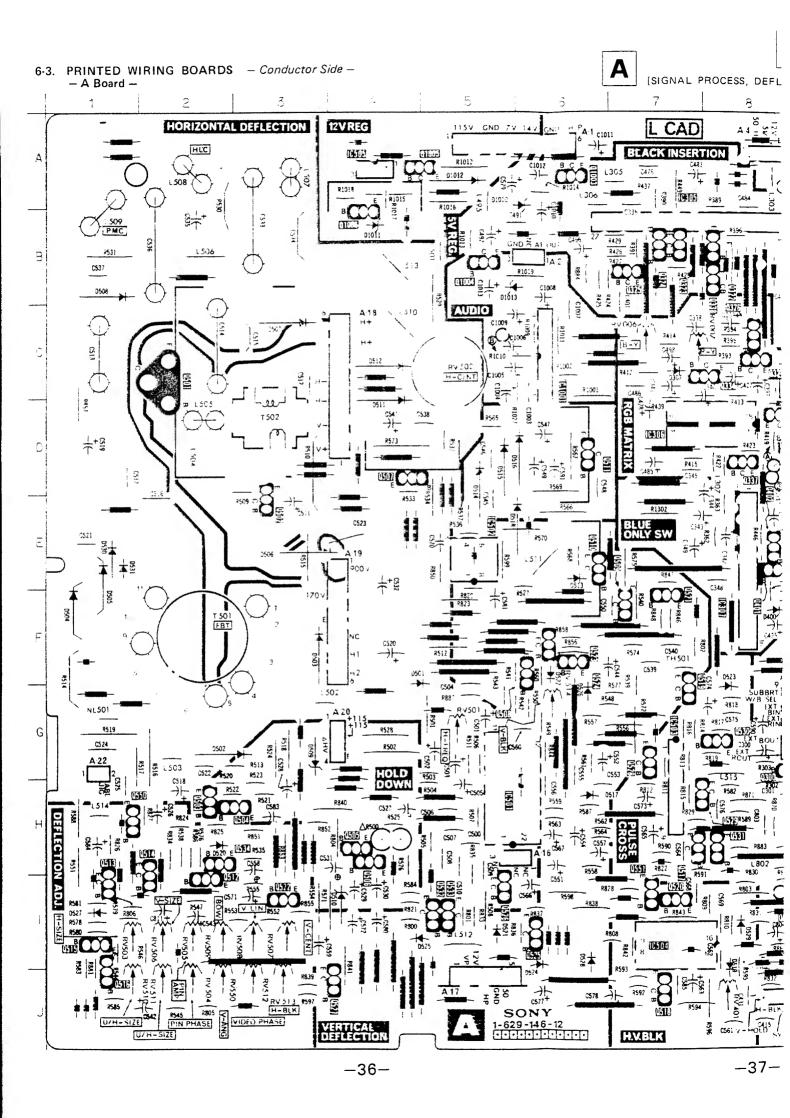
-32-

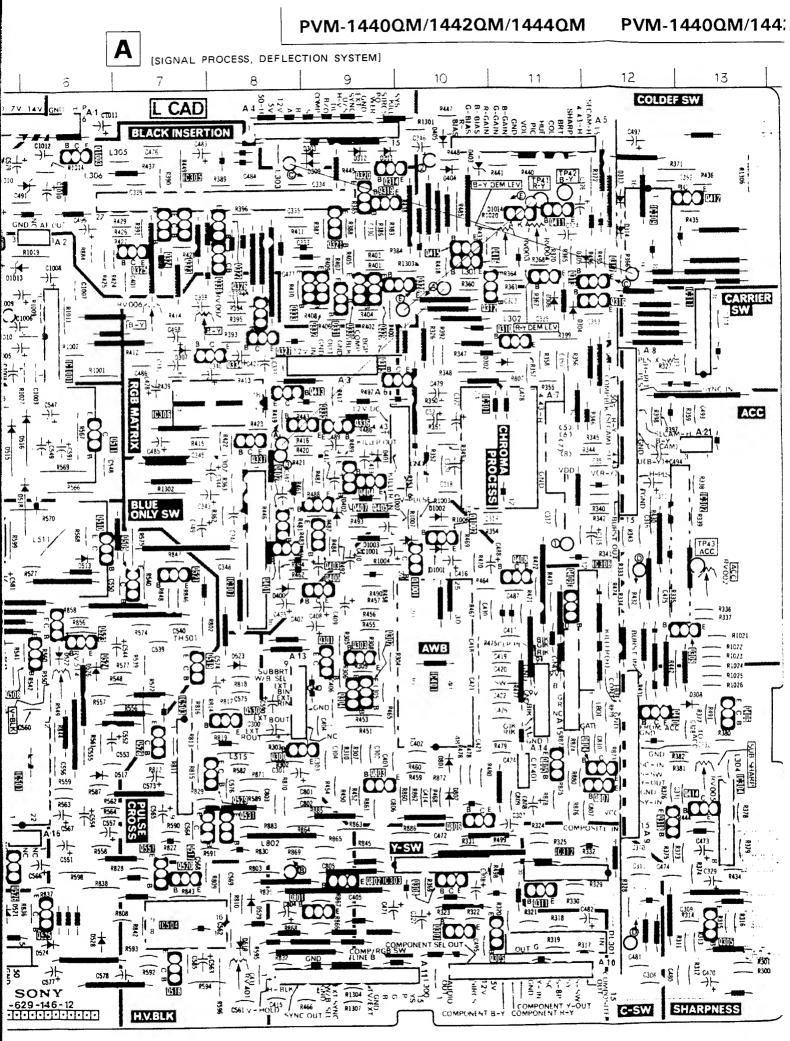






-35-



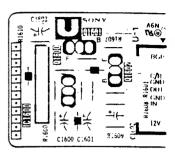


ACC

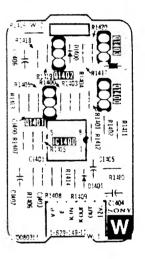
--- R301 --- R300

|  |  |  |   |  |  | <u></u>  |   |
|--|--|--|---|--|--|--|---|
| T  |  | Q330   | C-9   | Q531   | H-8  | D516   | D-6   |
| ·  | С  | Q331   | C-9   | Q532   | 1-5  | D517   | H-6   |
| 10301  | D-11   | Q332   | C-9   | Q533   | I - 5  | D518   | E-6   |
| 10302  | E-13   | Q333   | C-9   | Q534   | · H-2  | D519   | J-8   |
| 10303  | 1-10   | Q334   | C-8   | Q550   | H-1  | D520   | H-2   |
| 10304  | H-13   | 0335   | D-9   | Q551   | 1-7  | D521   | 1-5   |
| 10305  | B-7  | Q336   | D-9   | 0801   | 1-9  | D522   | F-6   |
| 10306  | D-8  | Q337   | D-8   | Q802   | 1-9  | D523   | G-8   |
| 10300  | E-8  | Q338   | B-8   | Q803   | H-9  | D524   | J-6   |
| 1  |  | 1  | F-9   | Q804   | H-12   | D526   | G-6   |
| 10308  | F-12   | 0400   |   | 1  |  | D527   | 1-1   |
| 10309  | B-12   | 0401   | E-8   | Q805-  | H-11   | l .  | 1-6   |
| 10311  | C-13   | Q402   | E-8   | Q806   | H-10   | D528   | 1   |
| 10312  | 1-11   | Q403   | E-9   | Q807   | H-12   | D529   | I-8   |
| 10401  | G-10   | Q404   | E-9   | Q1001  | E-10   | D530   | E-1   |
| 10501  | H-5  | 0405   | E-9   | Q1002  | E-10   | D531   | E-1   |
| 10502  | E-5  | Q406   | G-13  | Q1003  | A-6  | D801   | H-10  |
| 10503  | H-7  | Q407   | E-9   | Q1004  | B-5  | D802   | H-10  |
| 1C504  | 1-7  | Q408   | F-11  | Q1005  | A-4  | D1001  | E-10  |
| 10505  | A-4  | Q409   | F-11  | Q1006  | B-4  | D1002  | E-10  |
| 101001   | C-6  | Q410   | G-12  |  |  | D1003  | E-10  |
|  |  | Q411   | B-11  |  |  | D1010  | A-6   |
|  |  | Q412   | B-13  |  |  | D1011  | B-4   |
|  |  | Q413   | D-8   |  |  | D1012  | A-5   |
|  |  | 0414   | H-13  | DI   | ODE  | D1013  | B-5   |
| TRAN   | SISTOR   | Q415   | B-10  | D302   | C-11   | D1014  | B-11  |
| 0300   | G-8  | Q416   | B-10  | D303   | A-9  |  |   |
| 1  | G-9  | 1  | C-2   | D304   | C-12   |  |   |
|  |  |  |   |  |  |  |   |
| 0301   |  | 0501   |   | 1  |  |  |   |
| Q302   | G-9  | Q502   | E-3   | D305   | B-11   | VARI   | ARI F   |
| Q302<br>Q303   | G-9<br>G-9   | Q502<br>Q503   | E-3<br>H-2  | D305<br>D306   | B-11<br>C-11   |  | ABLE  |
| Q302<br>Q303<br>Q304   | G-9<br>G-9<br>G-9  | Q502<br>Q503<br>Q504   | E-3<br>H-2<br>H-2   | D305<br>D306<br>D307   | B-11<br>C-11<br>C-7  | RESI   | STOR  |
| Q302<br>Q303<br>Q304<br>Q305   | G-9<br>G-9<br>G-9<br>I-13  | Q502<br>Q503<br>Q504<br>Q505   | E-3<br>H-2<br>H-2<br>H-4  | D305<br>D306<br>D307<br>D308   | B-11<br>C-11<br>C-7<br>G-13  | RV002  | STOR<br>E-13  |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306   | G-9<br>G-9<br>G-9<br>I-13<br>I-11  | Q502<br>Q503<br>Q504<br>Q505<br>Q506   | E-3<br>H-2<br>H-2<br>H-4<br>H-4   | D305<br>D306<br>D307<br>D308<br>D309   | B-11<br>C-11<br>C-7<br>G-13<br>A-9   | RV002<br>RV003   | E-13<br>B-11  |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307   | G-9<br>G-9<br>G-9<br>I-13<br>I-11  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4  | D305<br>D306<br>D307<br>D308<br>D309<br>D311   | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9  | RESI<br>RV002<br>RV003<br>RV004  | E-13<br>B-11<br>B-11  |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6   | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312   | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>A-9   | RV002<br>RV003<br>RV004<br>RV005   | E-13<br>B-11<br>B-11<br>H-13  |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-10  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7  | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400   | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>A-9<br>F-8  | RESI<br>RV002<br>RV003<br>RV004<br>RV005<br>RV006  | E-13<br>B-11<br>B-11<br>H-13<br>C-7   |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-13<br>C-11  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7  | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401   | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9  | RESI<br>RV002<br>RV003<br>RV004<br>RV005<br>RV006<br>RV007   | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7  |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-13<br>C-11<br>I-11  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6   | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402   | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9   | RESI<br>RV002<br>RV003<br>RV004<br>RV005<br>RV006<br>RV007<br>RV501  | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5   |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-13<br>C-11  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>I-2   | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403   | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10   | RESI<br>RV002<br>RV003<br>RV004<br>RV005<br>RV006<br>RV007<br>RV501<br>RV502   | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5  |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>1-2   | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403<br>D404   | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10   | RESI<br>RV002<br>RV003<br>RV004<br>RV005<br>RV006<br>RV007<br>RV501<br>RV502<br>RV503                                  | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5  |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9   | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>1-2<br>I-1  | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403<br>D404<br>D405   | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10   | RESI<br>RV002<br>RV003<br>RV004<br>RV005<br>RV006<br>RV007<br>RV501<br>RV502<br>RV503<br>RV504                         | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5<br>I-1<br>J-2                                    |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312<br>Q313   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9<br>D-9  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514<br>Q515   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>I-2<br>I-1  | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403<br>D404<br>D405<br>D501                                 | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10<br>G-4  | RESI RV002 RV003 RV004 RV005 RV006 RV007 RV501 RV502 RV503 RV504 RV505   | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5<br>I-1<br>J-2<br>I-2                             |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312<br>Q313<br>Q314   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9   | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>1-2<br>I-1<br>I-2<br>I-1                                    | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403<br>D404<br>D405<br>D501                                 | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10<br>G-4<br>G-2   | RESI RV002 RV003 RV004 RV005 RV006 RV007 RV501 RV502 RV503 RV504 RV505 RV506   | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5<br>I-1<br>J-2<br>I-2                             |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312<br>Q313<br>Q314<br>Q315   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9<br>D-9  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514<br>Q515   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>I-2<br>I-1  | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403<br>D404<br>D405<br>D501<br>D502<br>D503                 | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10<br>G-4<br>G-2<br>F-3  | RESI RV002 RV003 RV004 RV005 RV006 RV007 RV501 RV502 RV503 RV504 RV505 RV506 RV507                                     | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5<br>I-1<br>J-2<br>I-2<br>I-2                      |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312<br>Q313<br>Q314<br>Q315<br>Q316   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9<br>D-9<br>C-12  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514<br>Q515<br>Q516   | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>1-2<br>I-1<br>I-2<br>I-1                                    | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403<br>D404<br>D405<br>D501                                 | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10<br>G-4<br>G-2<br>F-3<br>F-1   | RESI RV002 RV003 RV004 RV005 RV006 RV007 RV501 RV502 RV503 RV504 RV505 RV506 RV507 RV508                               | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5<br>I-1<br>J-2<br>I-2                             |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312<br>Q313<br>Q314<br>Q315<br>Q316<br>Q317   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9<br>D-9<br>C-12<br>C-12  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514<br>Q515<br>Q516<br>Q517   | E-3<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>1-2<br>I-1<br>I-2<br>I-1<br>J-1<br>H-7                             | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403<br>D404<br>D405<br>D501<br>D502<br>D503                 | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10<br>G-4<br>G-2<br>F-3<br>F-1<br>E-1  | RESI RV002 RV003 RV004 RV005 RV006 RV007 RV501 RV502 RV503 RV504 RV505 RV506 RV507                                     | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5<br>I-1<br>J-2<br>I-2<br>I-2                      |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312<br>Q313<br>Q314<br>Q315<br>Q316<br>Q317<br>Q318<br>Q319   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9<br>D-9<br>C-12<br>C-12<br>H-12  | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514<br>Q515<br>Q516<br>Q517   | E-3<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>1-2<br>I-1<br>I-2<br>I-1<br>J-1<br>H-7<br>J-7                      | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403<br>D404<br>D405<br>D501<br>D502<br>D503<br>D504         | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10<br>G-4<br>G-2<br>F-3<br>F-1   | RESI RV002 RV003 RV004 RV005 RV006 RV007 RV501 RV502 RV503 RV504 RV505 RV506 RV507 RV508                               | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5<br>I-1<br>J-2<br>I-2<br>I-2<br>I-3<br>I-3        |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312<br>Q313<br>Q314<br>Q315<br>Q316<br>Q317<br>Q318   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9<br>D-9<br>C-12<br>C-12<br>H-12<br>B-9<br>B-9                      | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514<br>Q515<br>Q516<br>Q517<br>Q518   | E-3<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>1-2<br>I-1<br>I-2<br>I-1<br>J-1<br>H-7<br>J-7<br>G-7               | D305<br>D306<br>D307<br>D308<br>D309<br>D311<br>D312<br>D400<br>D401<br>D402<br>D403<br>D404<br>D405<br>D501<br>D502<br>D503<br>D504<br>D505 | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10<br>G-4<br>G-2<br>F-3<br>F-1<br>E-1  | RESI RV002 RV003 RV004 RV005 RV006 RV007 RV501 RV502 RV503 RV504 RV505 RV506 RV507 RV508 RV509                         | E-13 B-11 B-11 H-13 C-7 C-7 G-5 C-5 I-1 J-2 I-2 I-2 I-3 I-3 I-3   |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312<br>Q313<br>Q314<br>Q315<br>Q316<br>Q317<br>Q318<br>Q319<br>Q320<br>Q321   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9<br>D-9<br>C-12<br>C-12<br>H-12<br>B-9<br>B-9<br>B-9               | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514<br>Q515<br>Q516<br>Q517<br>Q518<br>Q519<br>Q520   | E-3<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>1-2<br>I-1<br>I-2<br>I-1<br>J-1<br>H-7<br>J-7<br>G-7               | D305 D306 D307 D308 D309 D311 D312 D400 D401 D402 D403 D404 D405 D501 D502 D503 D504 D505 D506   | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10<br>G-4<br>G-2<br>F-3<br>F-1<br>E-1<br>E-1   | RESI RV002 RV003 RV004 RV005 RV006 RV007 RV501 RV502 RV503 RV504 RV505 RV506 RV507 RV508 RV509 RV510                   | E-13<br>B-11<br>B-11<br>H-13<br>C-7<br>C-7<br>G-5<br>C-5<br>I-1<br>J-2<br>I-2<br>I-2<br>I-3<br>I-3<br>I-3 |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306<br>Q307<br>Q308<br>Q309<br>Q310<br>Q311<br>Q312<br>Q313<br>Q314<br>Q315<br>Q316<br>Q317<br>Q318<br>Q319<br>Q320<br>Q321<br>Q322   | G-9<br>G-9<br>G-9<br>I-13<br>I-11<br>I-10<br>I-10<br>I-13<br>C-11<br>I-11<br>C-11<br>B-11<br>A-9<br>D-9<br>C-12<br>C-12<br>H-12<br>B-9<br>B-9<br>B-9<br>B-9<br>B-8 | Q502<br>Q503<br>Q504<br>Q505<br>Q506<br>Q507<br>Q508<br>Q509<br>Q510<br>Q511<br>Q512<br>Q513<br>Q514<br>Q515<br>Q516<br>Q517<br>Q518<br>Q519<br>Q520<br>Q521<br>Q522                                 | E-3<br>H-2<br>H-2<br>H-4<br>H-4<br>D-4<br>F-6<br>F-7<br>E-6<br>D-6<br>1-2<br>I-1<br>I-2<br>I-1<br>J-7<br>G-7<br>I-7<br>F-7<br>I-3 | D305 D306 D307 D308 D309 D311 D312 D400 D401 D402 D403 D404 D405 D501 D502 D503 D504 D505 D506 D507  | B-11<br>C-11<br>C-7<br>G-13<br>A-9<br>A-9<br>F-8<br>D-9<br>E-9<br>A-10<br>A-10<br>G-4<br>G-2<br>F-3<br>F-1<br>E-1<br>E-3<br>C-3  | RESI RV002 RV003 RV004 RV005 RV006 RV007 RV501 RV502 RV503 RV504 RV505 RV506 RV507 RV508 RV509 RV510 RV511             | E-13 B-11 B-11 H-13 C-7 C-7 G-5 C-5 1-1 J-2 1-2 1-3 1-3 1-2 J-1 J-2                                       |
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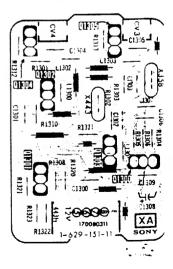
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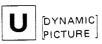


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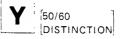
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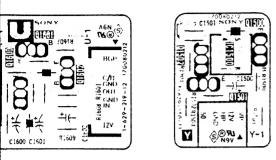
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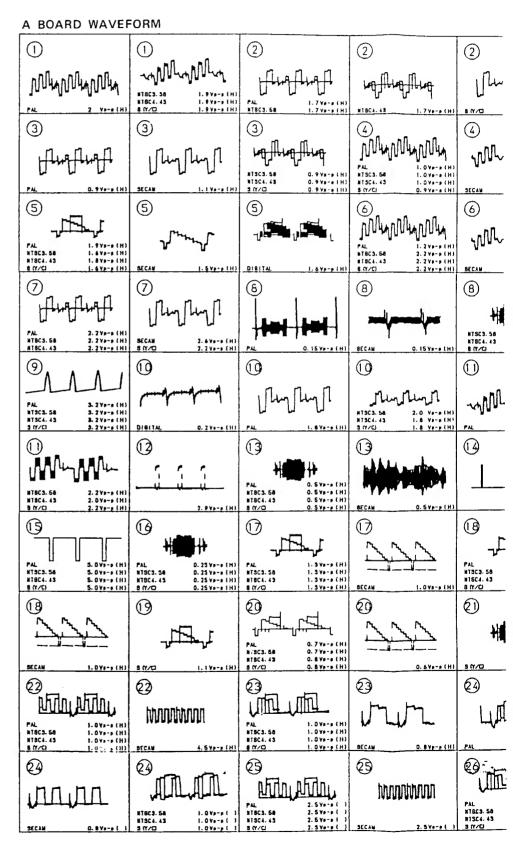
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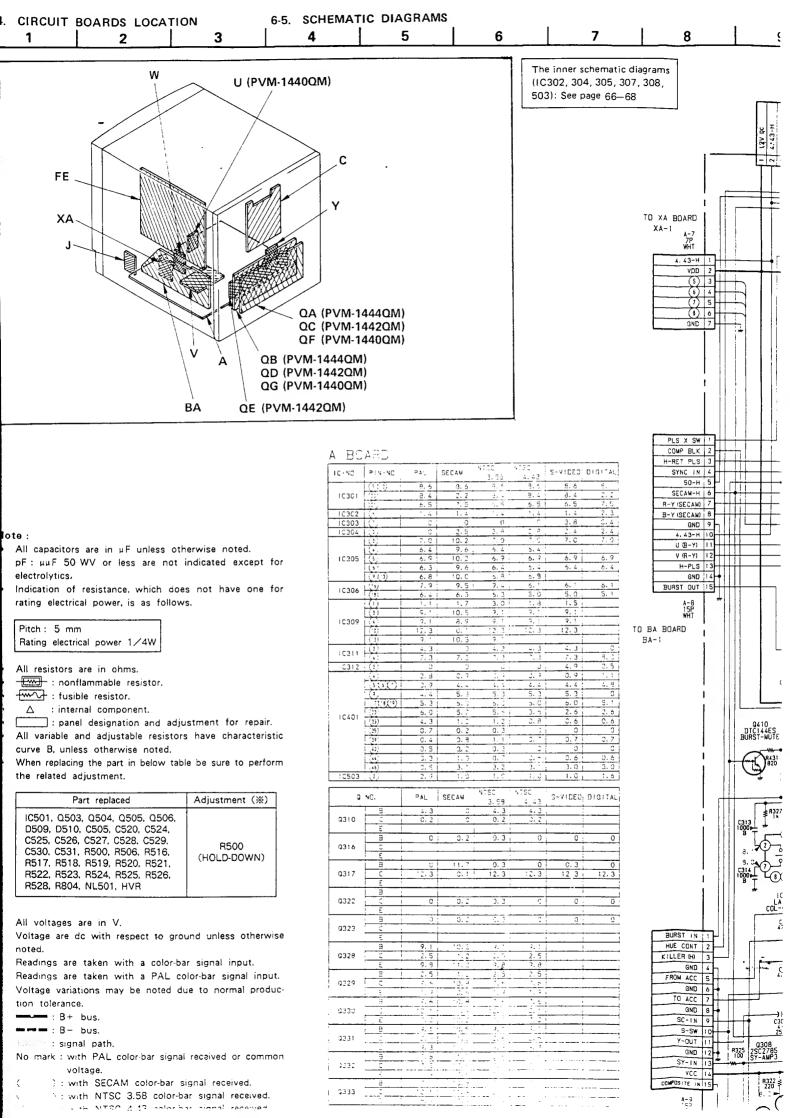


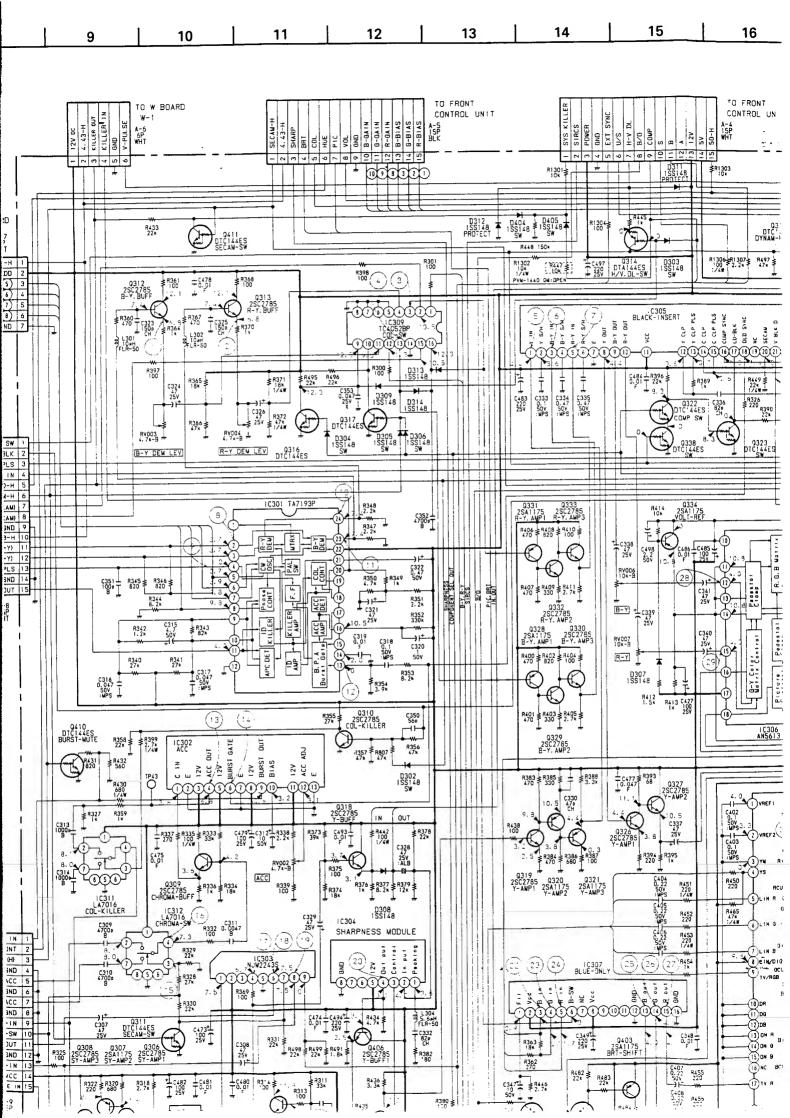


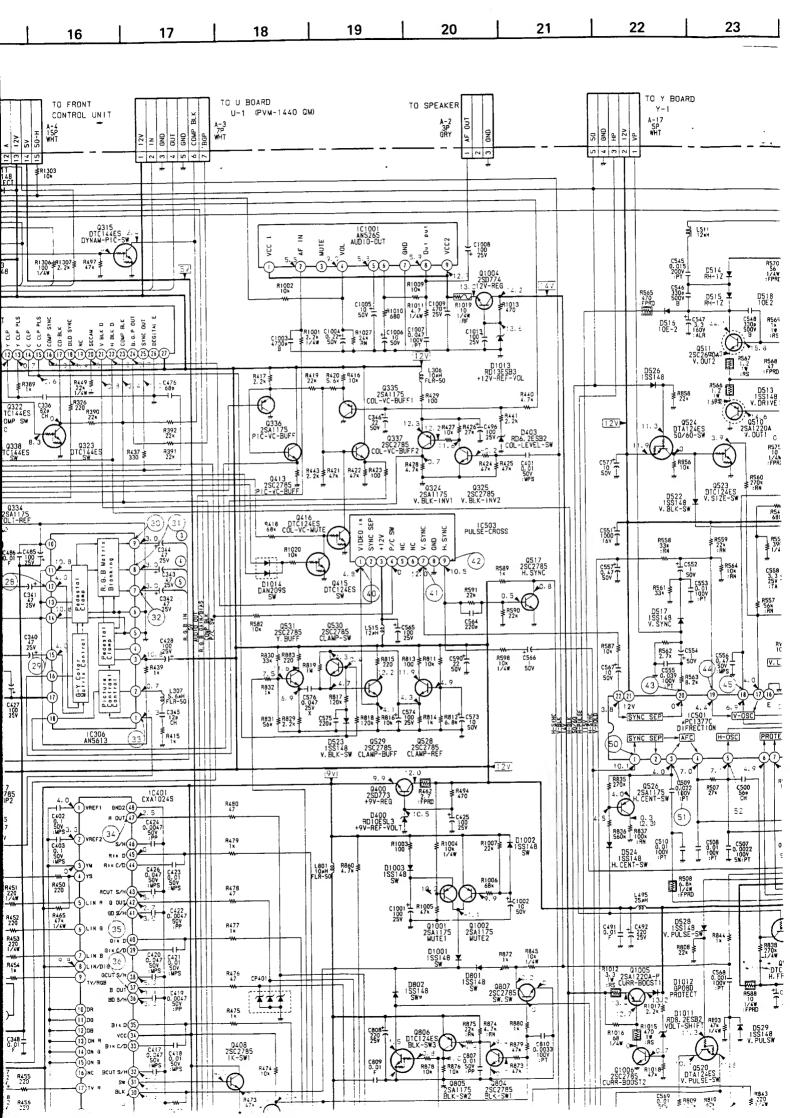
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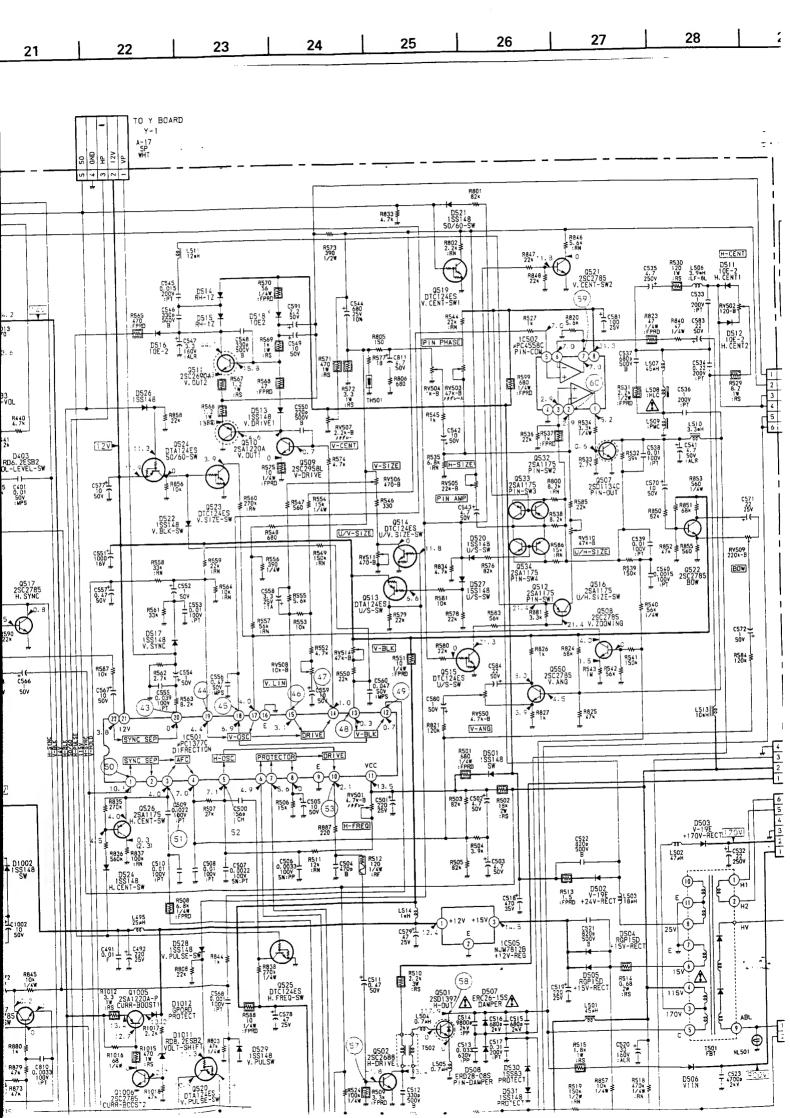
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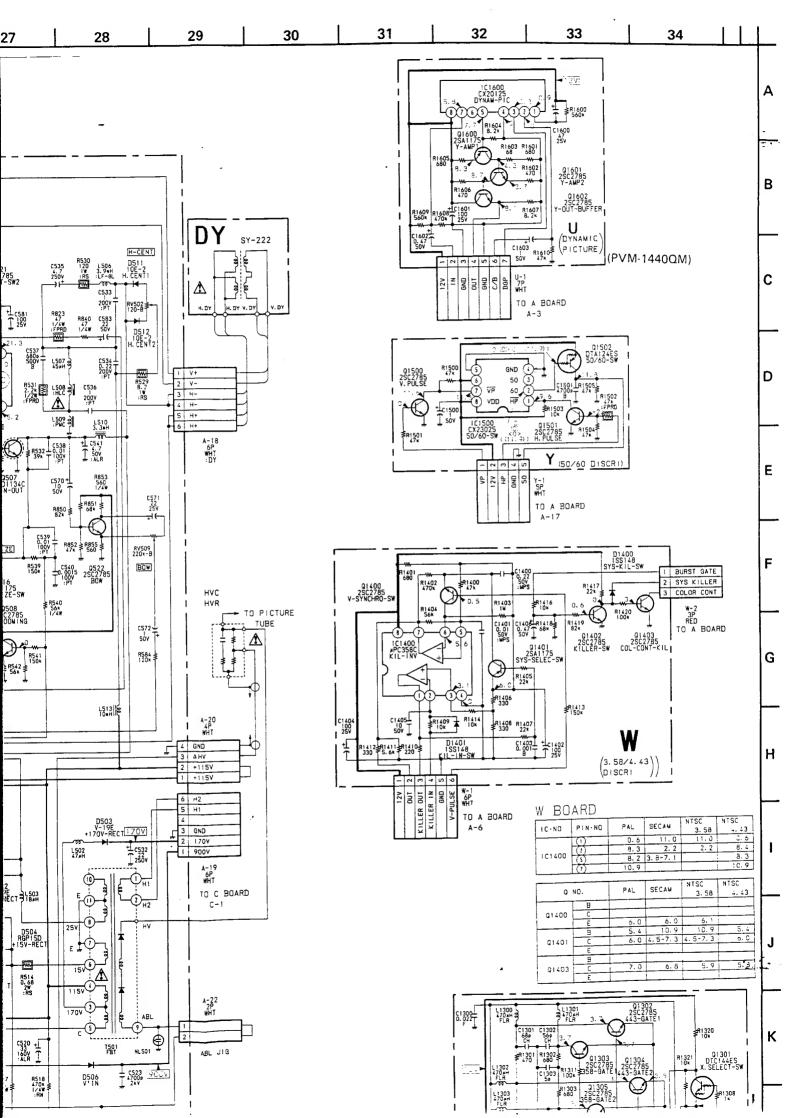
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| 7777-1781  | MANAGORANA<br>MANAGORANA<br>BEEAM B. SYSTEM IN | PAL 1.09;-;(H) NTBC3.58 1.09;-;(H) NTBC4.43 1.09;-;(H) NTBC9.43 1.09;-;(H) | BECAN O. AVO A (N)  |   |                               |
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| 3. 0 Ve-p (H)  |  | 113C4. 43 0. 4 Vp - p (H) 3 (7 / D 0. 4 Vp - p (H))                        |   | 63<br>63  | 3. 8 Vp - p (H)               |
| 0. 2 Va-s (H)<br>0. 2 Va-s (H)<br>0. 2 Va-s (H)              | HT8C3. 58 4. 0 Vp - p (H) HT8C4. 43 4. 0 Vp - p (H) B 07/CU 4. 0 Vp - p (H)        | DI 81 TAL 3. 5 V) - p. 1   | PAL 4.0 VP-P (H) NTSCS. 58 4.0 VP-P (H) NTSC4. 43 4.0 VP-P (H) NTSC4. 43 4.0 VP-P (H) | BECAM 4.3 Vp-p (H)  | DIG: TAL 4: 9 Yp-p (H)        |
| 2.240-2 (H)  | PAL 5. 2V== (H) H78C3. 56 5. 0V== (H) H78C4. 43 5. 0V== (H) 9 07/20 5. 0V== (H)    | LUWY LUWY  | 139 1.597-7 (M)   | <b>1</b>  | <ul><li>39</li><li></li></ul> |
|  | 9  | PAL 1. 1 Vp-p (H) NTBC3. 58 1. 1 Vp-p (H) NTBC4. 43 1. 1 Vp-p (H)          | £0 ~~~  | (i) Vi-) (H)  | S. S V3 (H)                   |
| 12 Yp-p (H)  1.6 Yp-p (H) 1.2 Yp-p (H) 1.4 Yp-p (H)          | 3. § Vp-2 (H)  | 43<br>   | 0.9Vp-p (11)  | 1.6 Vp- p 1 1   | Q. 35 Vp-7 (V)                |
| 1, 4Vs-s (H)   | 11 Ve-2 (H)  | (3)  | \$3.5Vr-p.(V)   | 5.07-7 (7)  | (1.7Y)-9 (V)                  |
| 0, 6 Vs-s (H)  | 2.040-1 (4)  | 5. 6 V <sub>2</sub> 1 V 1  | 11 Ye-e (Y)   | 6. 0 Ve-> (H)   | 4.0 (4-2 (11)                 |
| 74,407   |  |  |   |   |                               |
| 1. 0 Ye-r 1H1  | 4. 6 Vp-p (H)  | 5. 5 V <sub>2</sub> -2 (H)   | 10 40-0 (4)   | 12 Va-a (H)   | 11. V9-9 (H)                  |
| 2.8 Vp-p ( )<br>2.8 Vp-p ( )<br>2.8 Vp-p ( )<br>2.8 Vp-p ( ) | 4.0 V2-9 (H)   | 1500 ya-ya (H)   | 3.040-0 (1)   | 1.5yo-o (V)   |                               |











| - |  |              |              |
|---|--|--------------|--------------|
|   |  | 1030         |              |
|   |  | 10302        |              |
|   | Note:  | 10364        |              |
|   | All capacitors are in μF unless otherwise noted.   | 10305        | 3            |
| F | pF: µµF 50 WV or less are not indicated except for electrolytics.  |              | (0)          |
|   | Indication of resistance, which does not have one for  | 1C306        | 1.090        |
|   | rating electrical power, is as follows.  |              |              |
|   | Pitch: 5 mm  | 10309        |              |
|   | Rating electrical power-1/4W   | ļ            | 1 (13)       |
| G |  | 10311        | 9            |
| J | All resistors are in ohms.     Two : nonflammable resistor.  | 10312        |              |
|   | • tusible resistor.  |              | (i)          |
|   | <ul> <li>♠ △ : internal component.</li> </ul>  | 10401        | (10)         |
|   | panel designation and adjustment for repair.      All variable and adjustable resistors have characteristic.               |              | (35)         |
|   | curve B, unless otherwise noted.   |              | (6)          |
| Н | When replacing the part in below table be sure to perform  |              | (0)          |
|   | the related adjustment.  | 10503        | 10           |
|   | Part replaced Adjustment (※)   | 0            | NC.          |
|   | IC501, Q503, Q504, Q505, Q506,   | 0310         |              |
|   | D509, D510, C505, C520, C524, C525, C526, C527, C528, C529, D500   | -            |              |
| 1 | C530, C531, R500, R506, R516, (HOLD-DOWN)  | 0316         | $\vdash$     |
|   | R517, R518, R519, R520, R521, R522, R523, R524, R525, R526,  | Q317         | -            |
|   | R528, R804, NL501, HVR   | <u> </u>     | $\vdash$     |
|   |  | G322         |              |
|   | All voltages are in V.   | 0323         | -            |
| J | Voltage are dc with respect to ground unless otherwise   | -            | $\vdash$     |
| J | noted.  • Readings are taken with a color-bar signal input.  | G32B         |              |
|   | Readings are taken with a PAL color-bar signal input.  | G329         | <del> </del> |
| _ | Voltage variations may be noted due to normal produc-  |              | ļ            |
|   | tion tolerance.  • === : B+ bus.   | 0330         | -            |
|   | • - B- bus.  | Q331         | -            |
| K | Signal path.      Name of the PAL patentage signal apprised or common.   | U331         | -            |
|   | No mark : with PAL color-bar signal received or common voltage.  | G332         |              |
|   | ( ) : with SECAM color-bar signal received.  | G333         | -            |
|   | ( ): with NTSC 3.58 color-bar signal received.     (( )): with NTSC 4.43 color-bar signal received.                        | L 6333       |              |
|   | <ul> <li>(( )): with NTSC 4.43 color-bar signal received.</li> <li>i ): with S (Y/C) color-bar signal received.</li> </ul> | ; Q335       |              |
| L | • { } : with disital (9 pin in) color-bar signal received.   |              |              |
| _ | * : measurement impossibility.   | 0336         |              |
|   |  | 0337         | -            |
| _ | Reference information RESISTOR : RN METAL FILM   | :            |              |
|   | RESISTOR : RIV METAL FILM  | - 0401       |              |
|   | : FPRD NONFLAMMABLE CARBON   | 9404         | ·            |
| M | : FUSE NONFLAMMABLE FUSIBLE<br>: RS NONFLAMMABLE WIREWOUND   |              |              |
|   | : RB NONFLAMMABLE CEMENT   | 6455         | -            |
|   | COIL : LF-8L MICRO INDUCTOR  | G407         | _            |
|   | CAPACITOR : TA TANTALUM<br>: PS STYROL   |              | <u>:</u>     |
|   | : PP POLYPROPYLENE   | , 04'1       | <u> </u>     |
| N | : PT MYLAR   | 9413         |              |
|   | : MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE  |              |              |
|   | : ALB BIPOLAR  | G415         |              |
|   | : ALT HIGH TEMPERATURE   | 0416         | _            |
|   | : ALR HIGH RIPPLE  | -            | -            |
| 0 |  | G507         | -            |
| U | Note: The components identified by shading and mark  A are critical for safety. Replace only with                          | G516         | _            |
|   | part number specified.   |              |              |
| - |  | <b>G</b> 532 |              |
| • |  |              |              |
| p |  | G* 34        |              |

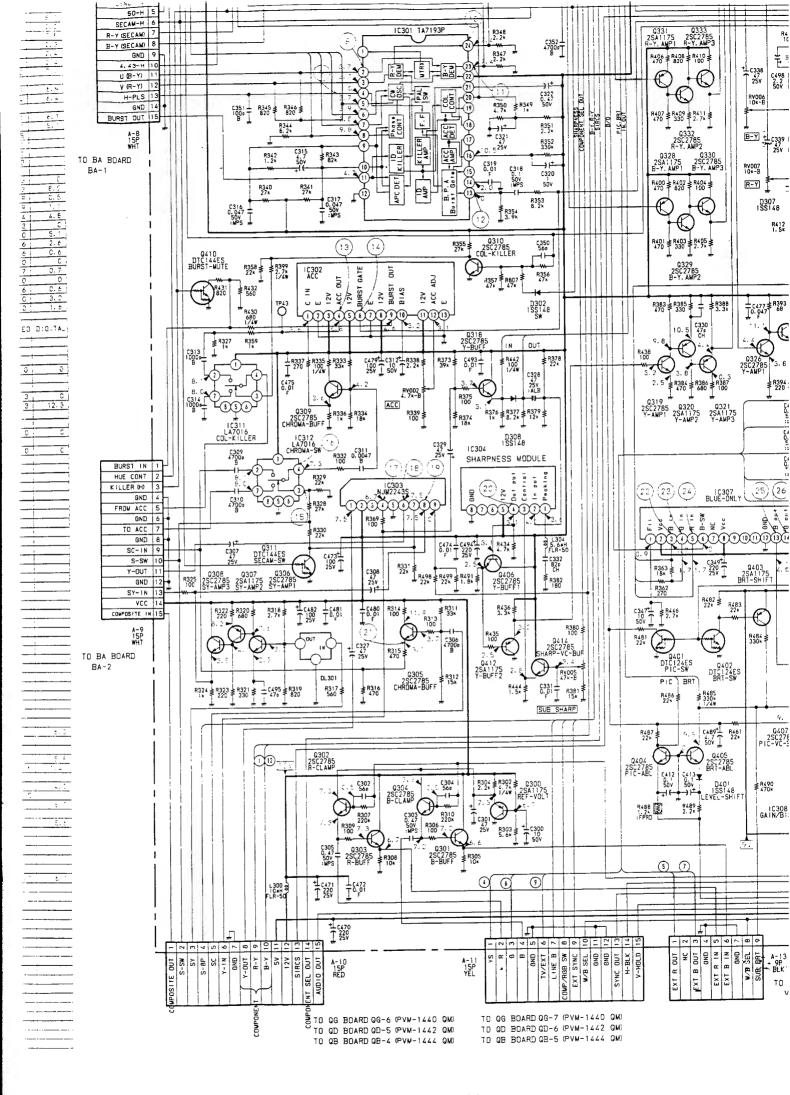
|               |                       |                |                |                |   |                | , .        |
|---------------|-----------------------|----------------|----------------|----------------|---|----------------|------------|
| 10301         | (*18. )<br>(*)<br>(*) | 8 t            |                | :::-           |   | F              | 2.2        |
| 10302         |                       | E 1            |                | 1, 5           | * *   | 1.4            | 1.0        |
| 10303         |                       | <u> </u>       | ()<br>()       | 12             | 2.5   | 3.6            | 2.4        |
|               |                       | 7. (*          | 10.2           | 5. 6           |   | 7. C           |            |
| 10305         | (3)                   | 5. 4<br>6. 6   | 10.2           | 6.9            | 6   | 5,6            | (13)       |
|               | (01:0                 | 6.3<br>6.8     | 9.6 j          | 6.4            | 6. P  |                | f . 4-     |
| 10306         | 100                   | 7, 9           | 4.5            | 9, 2 ;<br>5, 3 | <del>- Elia</del>                           | - <del>(</del> | <u> </u>   |
|               |                       | 1.1            | 1.7            | 3.0            | • 6.  | 9. 1           |            |
| 10309         | <u> </u>              | 9. 1 i         | €. ♀           | 9.1            |   | 9. 1           |            |
|               | (10)                  | 12.3<br>9.1    | 10.5           | 12.3           | 1414  | 12.3           |            |
| 10311         | <u>(i)</u>            | 7.3            | 7.3            | 7.3            | 4. 3  | 7.3            | 8. C       |
| 10312         | (3)                   | 0              | U I            | 0              | 0   | 4, ¢           | 0.5        |
|               | 1000                  | 0.9            | C. 9 1         | 0. 9           | C. C<br>4. 4                                | 4.4            | 4. 9       |
|               | (17)(18)(19)          | 5. 2           | 5.3 j          | 5. 3<br>6. 0   | 5. 3<br>6. 0                                | 5.3<br>6.0     | 5.1        |
| 10401         | (15)                  | 6.0            | 5.7            | 5. 6           | 3. é<br>0. 8                                | 2.6<br>C.6     | 2.6<br>0.6 |
|               | (35)                  | 4. 3<br>0. 7   | C. 2           | 0.3            | 0   | C              | Ċ          |
| İ             | (35)                  | C. 4<br>D. 5   | C. B           | 0.3            | 0.7<br>C                                    | 0.7<br>0       | C. 7       |
|               | (1)                   | C. 3           | 1.0 i          | 0.7            | 0. 6 J                                      | 0.6<br>3.0     | C-6        |
| 10503         | (1)                   | 2.9            | 1. C           | 1.0            | 1.0   | 1.0            | . 6        |
| 0             | NC.                   | PAL            | SECAM I        | NTSC           | NISC  | S-VIDEO I      | O'GITAL    |
| -             | E E                   | 4.3            | 0              | 3, 58<br>4, 3  | 4.3   |                |            |
| 0310          | C                     | 0.2            | 0              | 0. 2           | C. 2  |                | =          |
|               | В                     | C              | C. 2           | 0.3            | 0   | C              | 0          |
| 0316          | E                     |                |                |                |   |                |            |
| Q317          | C                     | 12.3           | 11.7 j         | 12.3           | 12.3:                                       | 0.3            | 12.3       |
|               | E                     |                |                |                |   |                |            |
| G322          | 0                     | С              | 5.2            | 5. 3           |   | Ç.             | C          |
| -             | E                     | 0              | 6.7            | 6.3            | 5 1   | 6.             | 0          |
| 9323          | E .                   | <del></del>    |                |                |   | 1              |            |
| 0000          | В                     | 9.1            | 1.2            | 9, 1<br>2, 5   | 2.5   |                |            |
| G328          | C<br>E                | 9. A           | 1.0            | 9.8            | 9.8   |                |            |
| G329          | E C                   | 7.6            | 10.8           | 7.6            | 7.6   |                |            |
| ļ             |                       | 7.6            | C. 6 -         | 7.6            | 1.9.<br>7.6                                 |                |            |
| <b>G</b> 330  | С                     | 12.1           | 11.5           | 12.1           | 7.0   |                |            |
|               |                       | 7.0<br>9.1     | 10.5           | 9.1            | 9.1   |                |            |
| C331          | <u> </u>              | 2. 6<br>9. 5   | 1.2            | 2.6            | 2. t  <br>9. P                              |                |            |
| 0222          | В                     | 7.5            | 1.3            | 2 t            |   |                |            |
| G332          | F F                   | · . ¢          | 10.5 ;<br>(. t |                |   |                |            |
| G333          | BC                    | 7.5            | 16.6           | 1, <u>\$</u>   |   |                |            |
|               | E                     | 5. °<br>6. 8   | 10.4           | 5.4 i          | —#:==<br>================================== |                |            |
| ; <b>G335</b> | <u> </u>              |                |                | 6.4            | 6. C  |                |            |
| -             |                       | 7, 4  <br>9, 0 | 7. 6<br>9. 5   | 9, 2           | 9.7   |                |            |
| 0336          | C<br>E                | 4.6            | 10.1           | 10.4 !         | 7. 6  |                |            |
| G337          |                       | 7.0            | 6. 8           | 10.4           |   |                |            |
| . 633.        |                       | 6.4            | 7.37           | 1.0            |   |                |            |
| - 0401        | - E                   | 7, 9           | 1, 5           |                |   |                | * 5        |
|               | <u>ε</u>              |                |                |                |   |                |            |
| 9404          | ξ                     | 7.6            | 9.5.1          |                |   | 1.6            | <u> </u>   |
|               | P                     |                |                |                |   |                |            |
| G405          | C E                   | 2.3            | 4.5<br>6.4     | 4.3<br>0.7     |   | · ·            | 2.3        |
| G407          | E - E -               |                | 7. 5           | 7, 7           |   |                |            |
|               | E                     | 7. 0           | <u> </u>       | 9. 5           | - 1.7                                       |                | L, C       |
| , 6411        | <u>C</u> E            | J. 8           |                |                | 7.5   |                |            |
|               | - E                   | 6. 6           | 10.7           | 10.2.          |   |                |            |
| 9413          | Ę                     | 7. 9 7         | 9. 5           | 5.7            | 3.7   | 5.1            | 6. 1       |
| G4'5          | . i                   |                |                | <del></del>    |   |                |            |
| L4.5          | . C                   | 3 <u>.</u>     |                |                |   |                |            |
| Q416          | B                     | U. 3 ·         | 5. 8           | 6.3            |   |                |            |
| -             | E I:                  |                |                |                |   |                |            |
| G507          | C                     | 11.5           | 4, 6           |                | II: 15.                                     |                |            |
|               |                       | La             | <u>:</u>       |                |   |                |            |
| 6516          | <u> </u>              | 3.11           | 1.6            |                |   | <b>-</b>       |            |
| Q532          | 19                    | 3. 4<br>3. 4   |                | 23.4           | - :::                                       |                |            |
|               |                       | 3, 1           |                |                | 1   |                |            |
| 61.34         |                       | <u>~</u>       |                |                | 12 1-5.                                     |                |            |
|               | !                     |                | _ **::         |                | · · · ·                                     |                |            |
|               |                       |                |                |                |   |                |            |

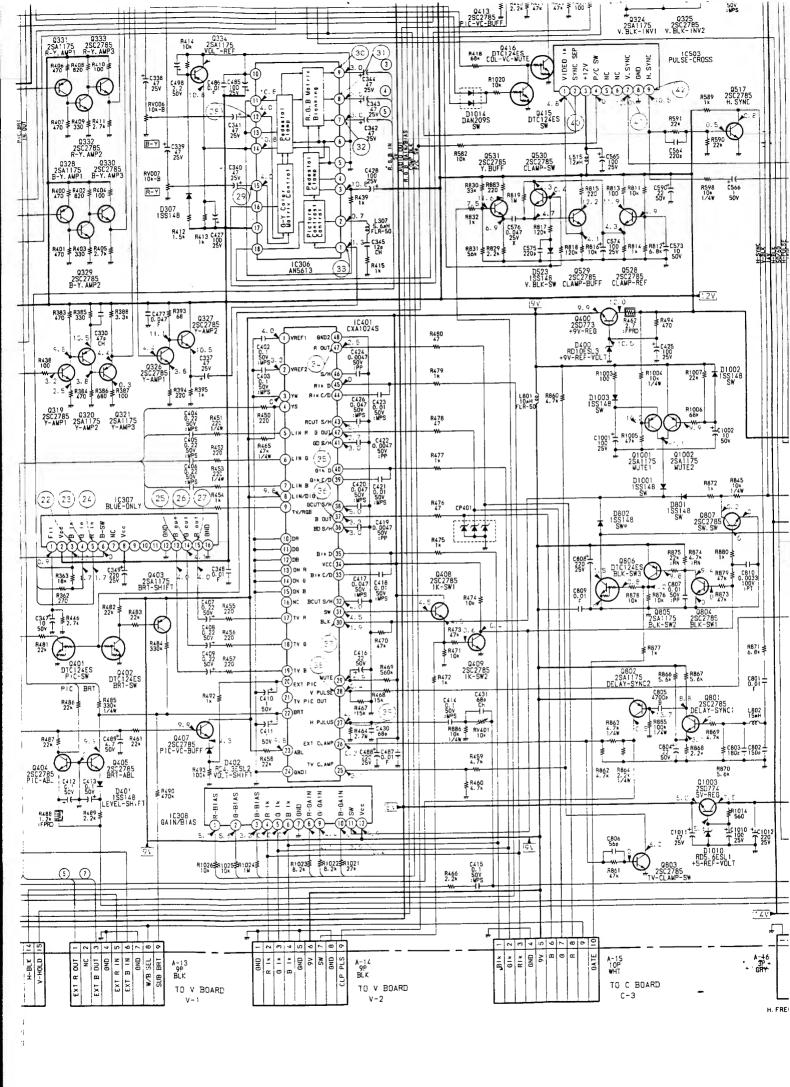
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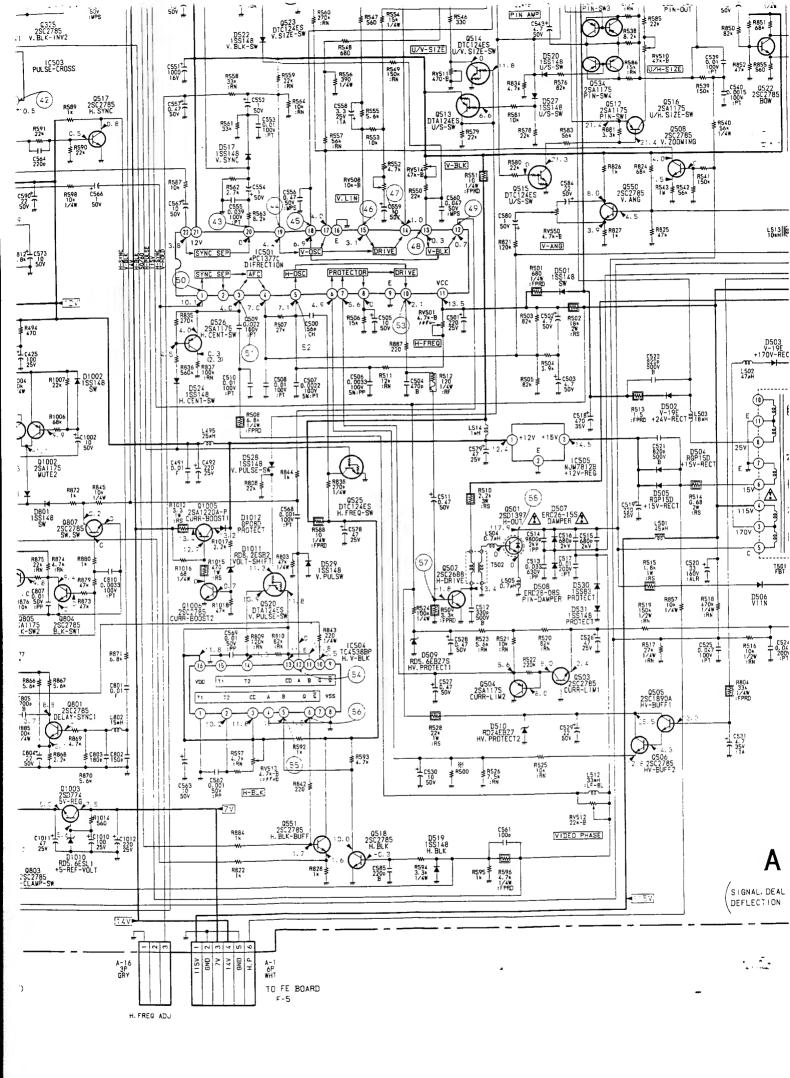
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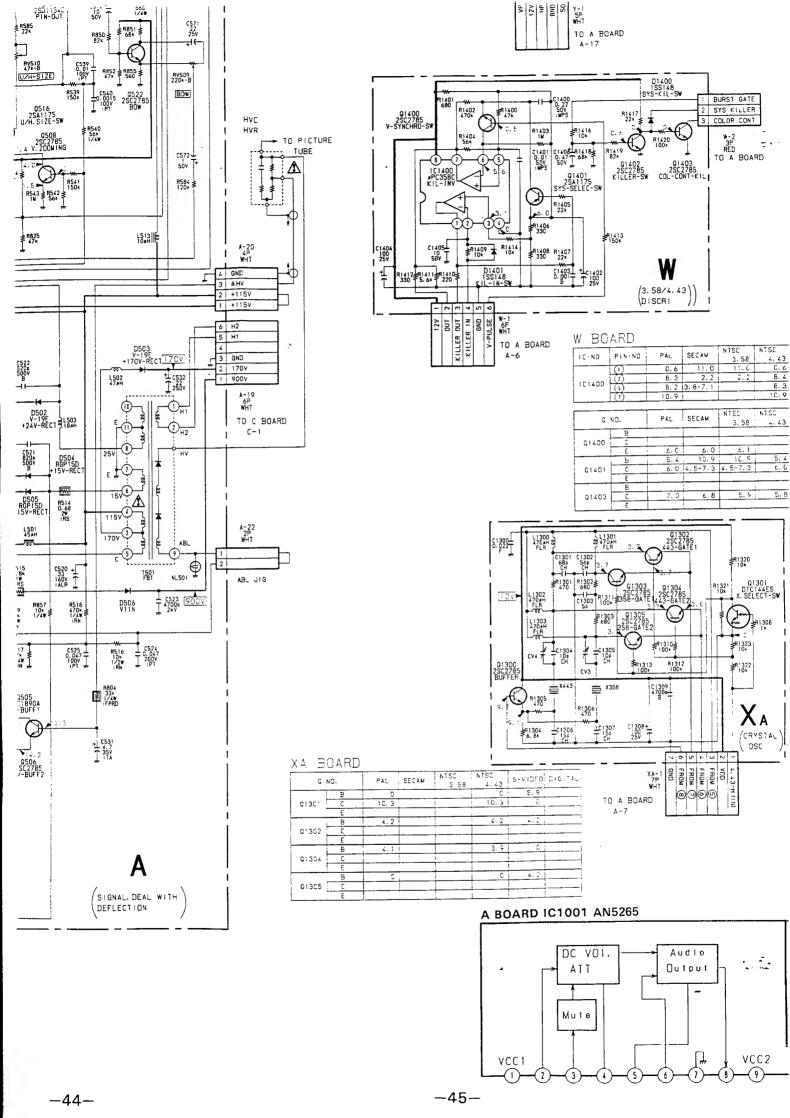
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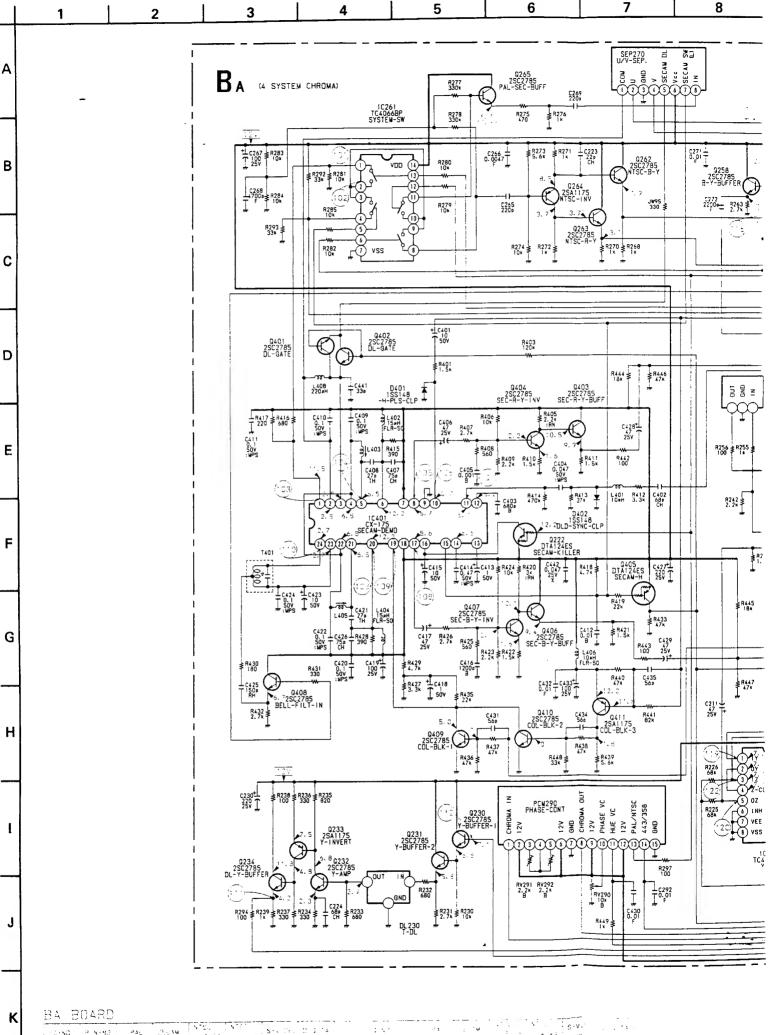
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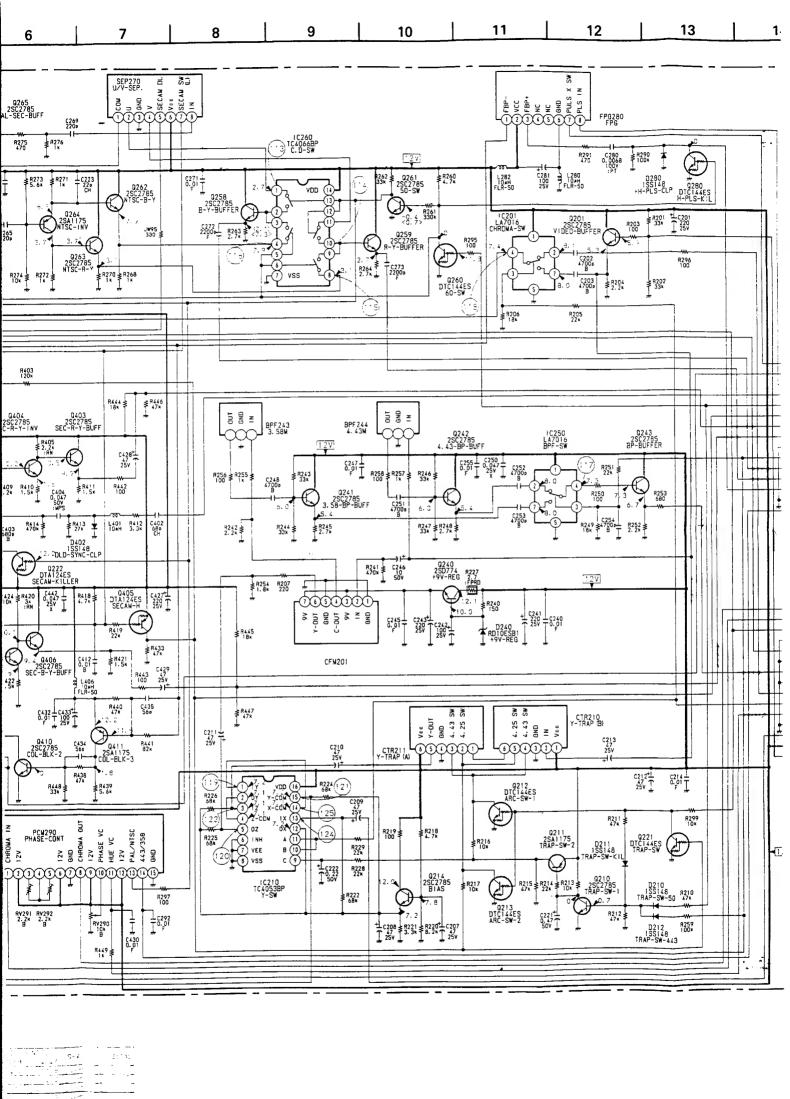


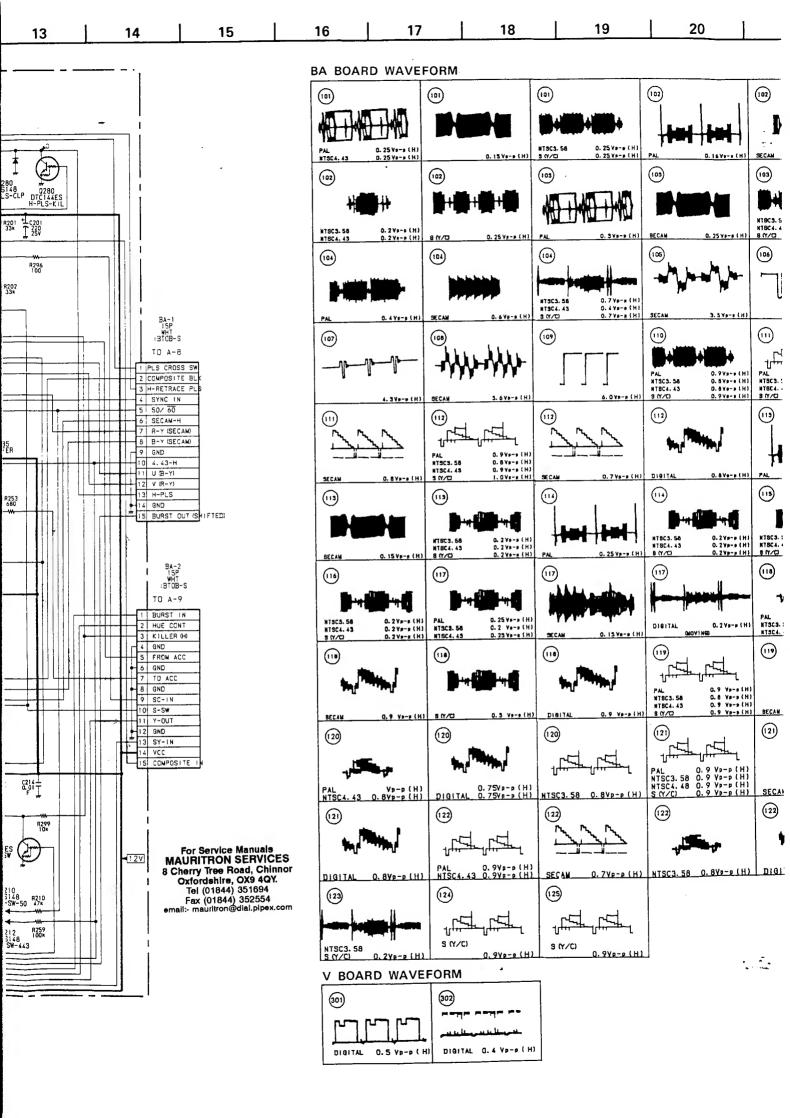


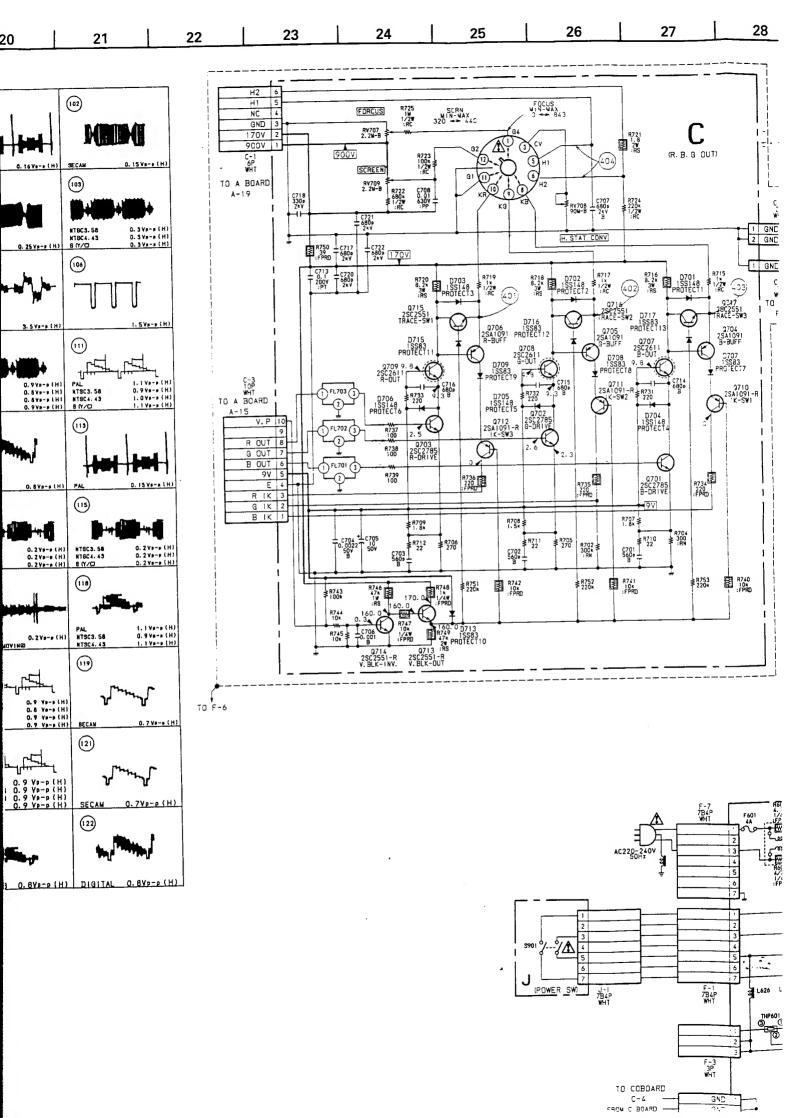


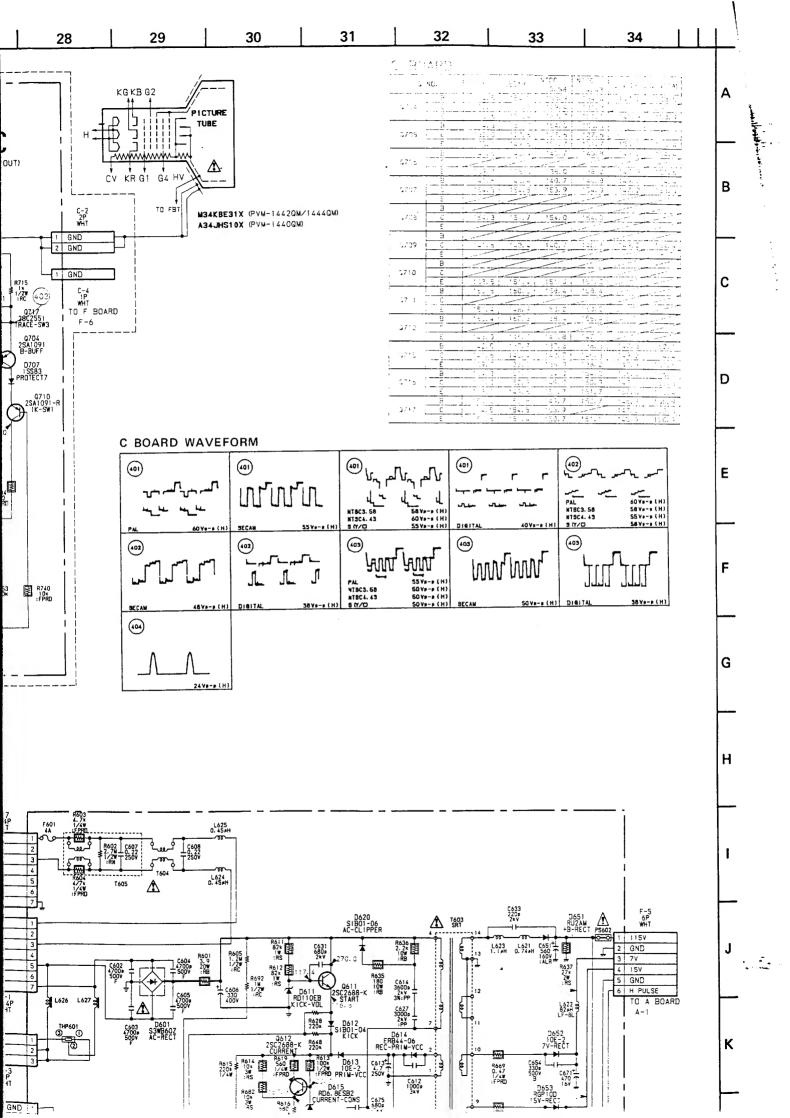


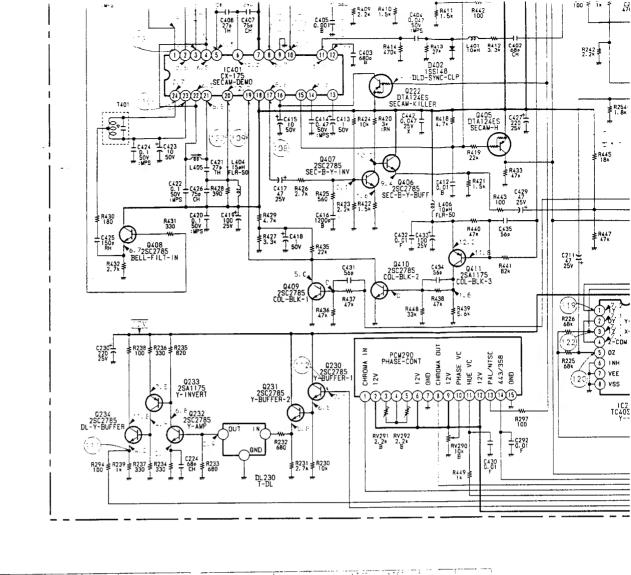












B4 BCARD

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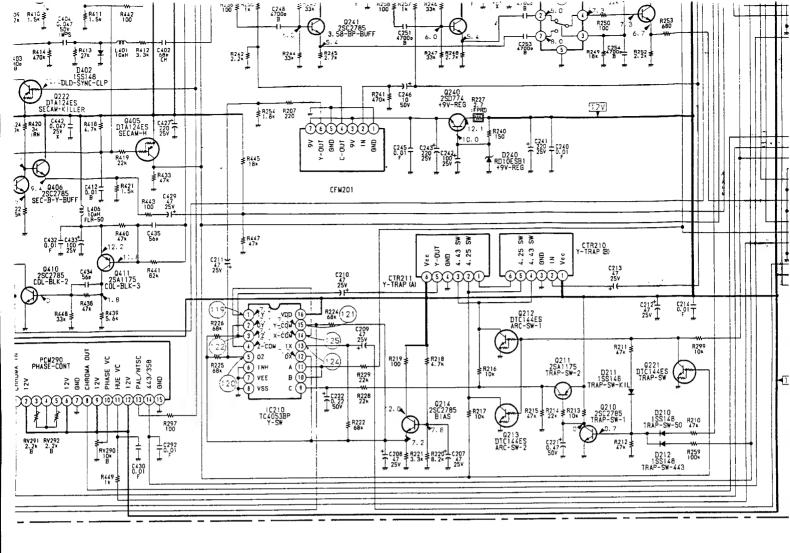
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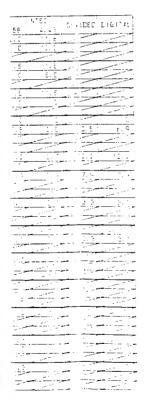
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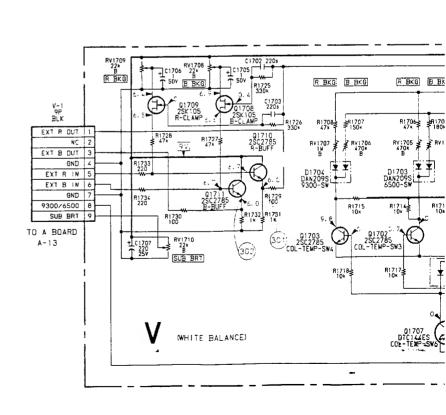
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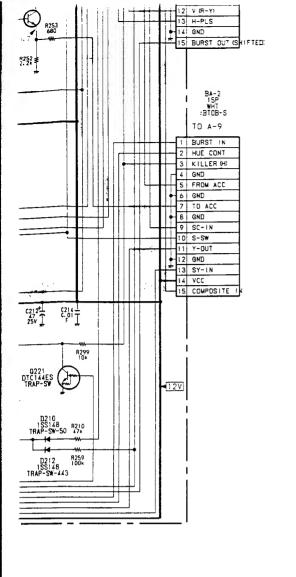
| 15 - NO | PIN-NO    | PAL    | SECAM         | NTSC<br>3.58 | ′ N*SC<br>! 4.43                              | S-VIDEE :  | 5.74.  |
|---------|-----------|--------|---------------|--------------|---|------------|--------|
| 10201   | 0         | C      | C             |              |   | 4.5        | 7. 5.  |
|         | (6)       | 12.2   | 12.2          | G            | 12.1  |            |        |
| 10210   | (10)      | C      | Č.            | S            | 10.0  | 11,2       | :      |
|         | (11)      | (-     | (             | . 0          | 10.5  | 11.        | 1.1    |
| 0000    | (1)       | 4.7    | 0.8-1.6       | <u>د</u>     | 4, 1  |            |        |
|         | (1)       | 2. 6   | 2. 7          | 7. 9         | 7.4   | -          |        |
| 6016    | (5)       | 0      | C             |              | 15.9  | 1(-, 1     |        |
| 0260    | (9)(0)(1) | 3. 3   | 3. 4          | 3. 1         | 3. 1  |            | 3. 1   |
|         | (3)(5)    | 12. 2  | 12.2          |              |   |            |        |
|         | (0)       | : 0. 8 | 15. 8         |              | 1 °C 5  |            | i. 4   |
|         | (0.3)     | 7.3    | : C. 8        | 7. 3         | 7.4   | <u> </u>   | ٤٠,    |
|         | 100 :     | 7. 3   | 7.3           | 7.3          | 11.0  |            |        |
|         | (\$)      | 16. £  | Ι             | 10.6         | 16.5  |            | _ 16-2 |
| 2260    | 1.        | - 1.   |               |              | 15 .  | 12.3       |        |
|         |           | 5.3    | 0             | 7.3          |   |            | _ 20:  |
|         | (4) 2 .   | 7.3    | : 0. <u>#</u> | 7.3          | . Luci 1921                                   |            | : :    |
|         |           | 7.0    | · 5. è        | 3, 4,        | <u>.                                     </u> | <u> 3.</u> |        |
|         | (.1)      | 11.2   | 112_1         | <u> </u>     |   |            |        |
|         | i (i).    | 0.8    | 14.4          | Ç. •         | 10  | <u> </u>   |        |
|         | (4)       | 50 U   | t.,           |              |   |            |        |
| .5401   | (15)      | 17.8   |               | 4 - 4 - 5    |   | د رئيتند   |        |
|         | (1)       | 7, t.  | 6.5           | 11.1         |   |            |        |

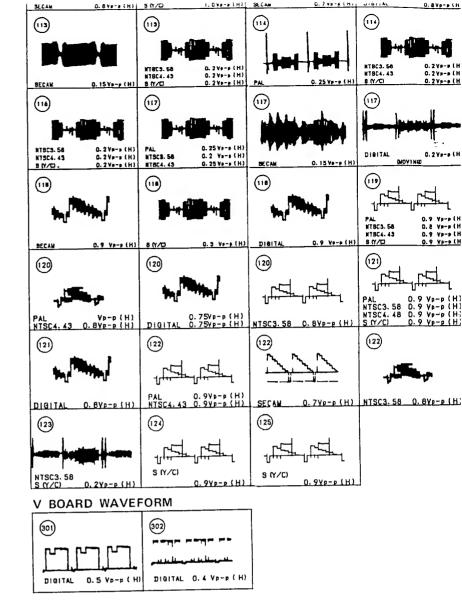
| 3      | NO.        | F.A.                                       | St.4v | VIII .<br>_3.55 l. | <br>V DEG I -6                                  | 1.4.      |
|--------|------------|--|-------|--------------------|---|-----------|
| 5211   | E          |  |       |                    | <br>- <u> </u>                                  |           |
|        | E          |  |       |                    |   |           |
| 5112   | - :<br>- : |  |       |                    | <br>  |           |
| 2513   |            |  |       |                    |   |           |
| G211   | <u>5</u>   |  |       |                    |   |           |
|        |            |  |       |                    | 1.5-2-  |           |
| 3218   |            |  |       |                    | -   |           |
| G250   |            |  |       |                    |   |           |
| 5.7    |            |  |       |                    | <br>  | <u> </u>  |
| 6.1    | <u> </u>   |  |       |                    |   | <u> </u>  |
| 1 4411 | <u>E</u>   |  |       |                    | التعلم<br>أحسر الأرا<br>التعلم                  |           |
|        | <u> </u>   | نه <u>انگی</u><br>مورون سرمه<br>مورون سرمه |       |                    | <br>- خصر ال<br>- مصر إلا-<br>- المصر المالية - |           |
| 34.5   |            |  | _     |                    | <br>  |           |
| J. "   |            | . مندسب.<br>محمد برست                      |       |                    | <br>. <u> </u>                                  | : · · · · |

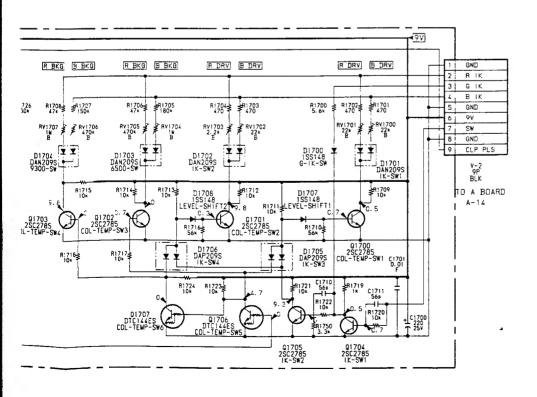


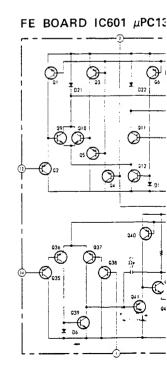


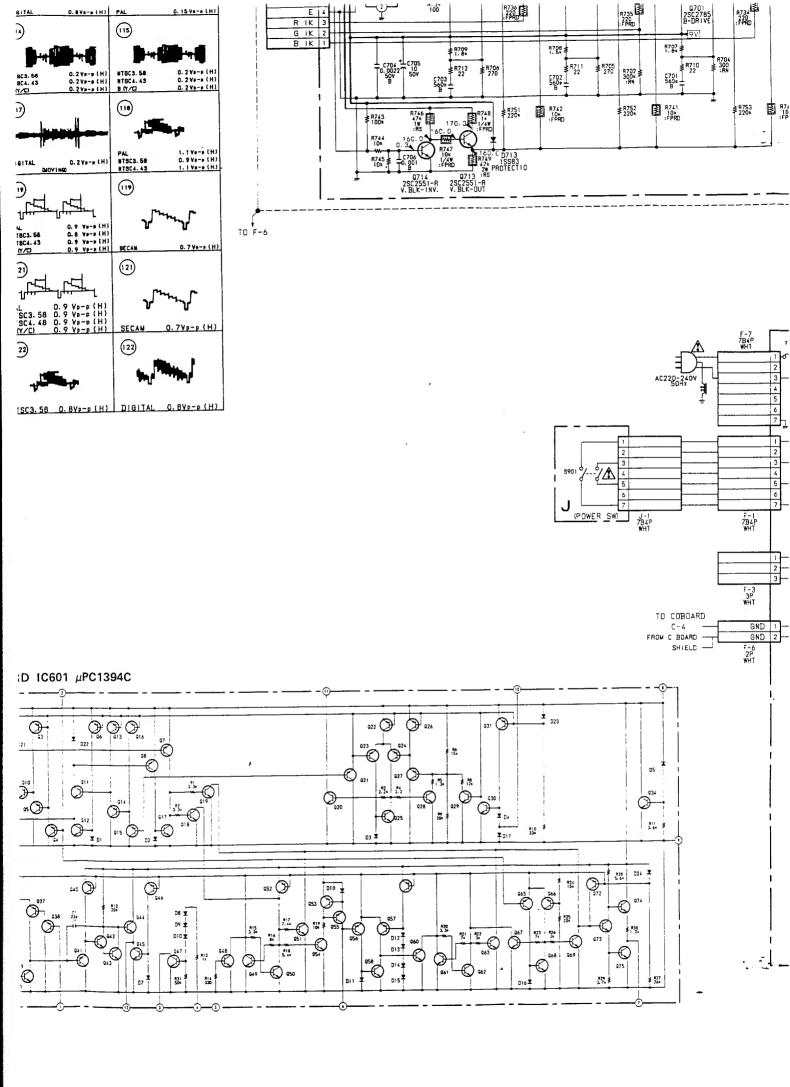


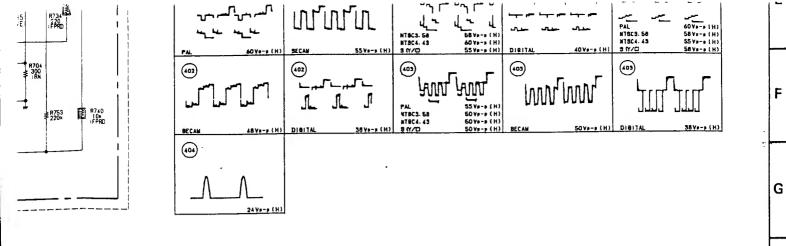


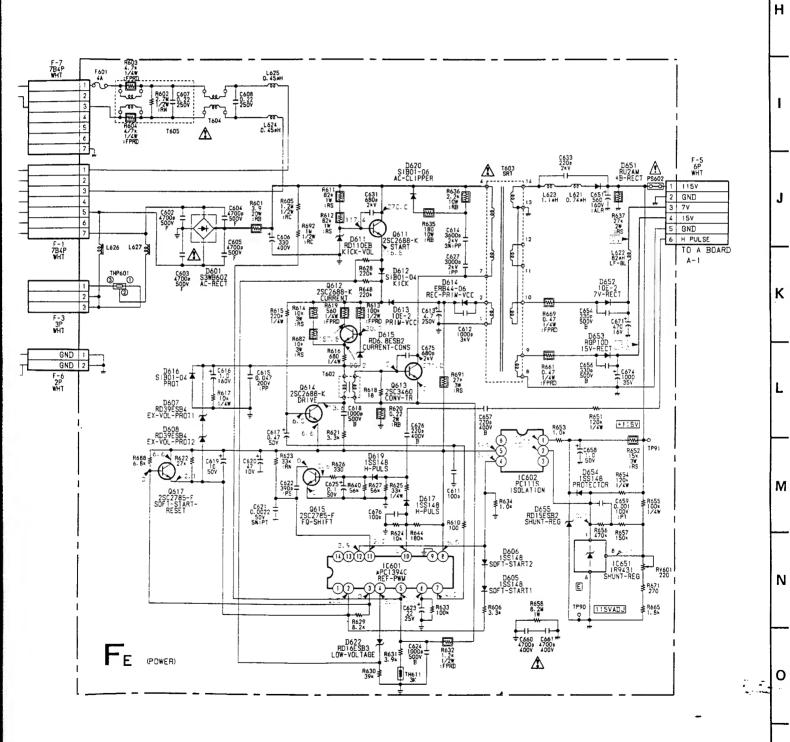










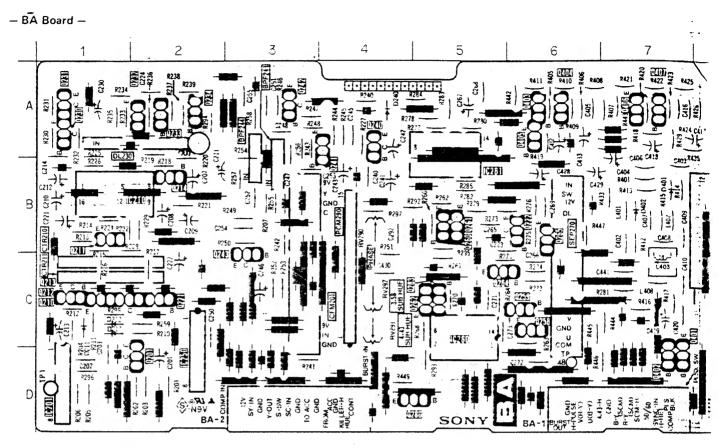


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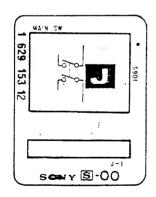
## PVM-1440QM/1442QM/1444QM

10

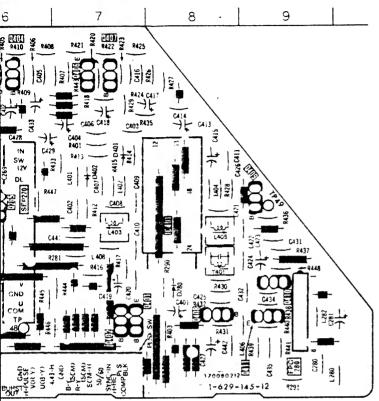




## - J Board -



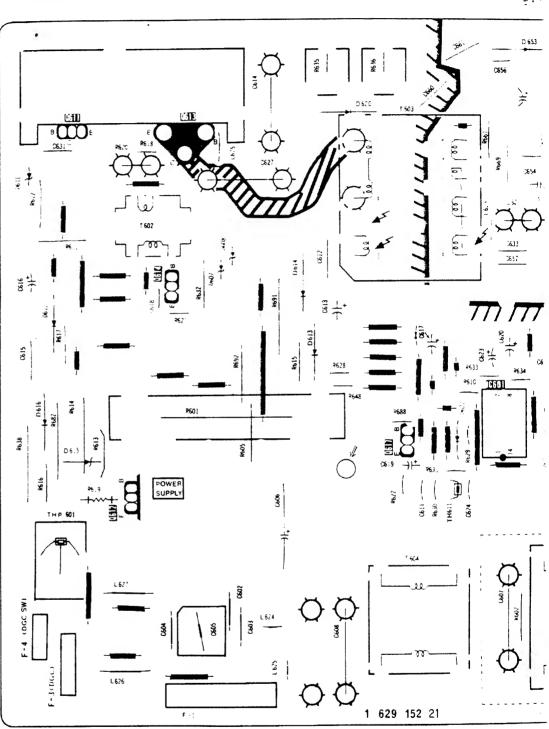




## **BA** Board

| 1  | С   | Q241<br>Q242   | A-4<br>A-3   | DIODE  |
|--|---|--|--|--|
| IC201<br>IC210<br>IC250<br>IC260<br>IC261<br>IC401   | D-1<br>B-1<br>D-2<br>C-5<br>B-5<br>B-8  | Q243<br>Q258<br>Q259<br>Q260<br>Q261<br>Q262   | C-3<br>C-6<br>C-6<br>B-5<br>B-5<br>C-5                             | D210 C-1 D211 C-1 D212 C-1 D240 A-4 D280 C-8 D401 B-7 D402 B-7 |
|  | SISTOR  | Q263<br>Q264<br>Q265   | C-5<br>C-5<br>B-6  | VARIABLE<br>RESISTOR   |
| Q201<br>Q210<br>Q211<br>Q212<br>Q213<br>Q214<br>Q221<br>Q222<br>Q230<br>Q231<br>Q232<br>Q233<br>Q234 | D-2<br>C-1<br>B-1<br>C-1<br>C-1<br>B-2<br>C-2<br>B-6<br>A-1<br>A-1<br>A-2<br>A-2<br>A-2 | Q280<br>Q401<br>Q402<br>Q403<br>Q404<br>Q405<br>Q406<br>Q407<br>Q408<br>Q409<br>Q410<br>Q411 | D-5<br>D-7<br>D-7<br>A-6<br>A-6<br>A-7<br>A-7<br>D-8<br>B-9<br>C-9 | RV290 8-4<br>RV291 C-4<br>RV292 C-4                            |

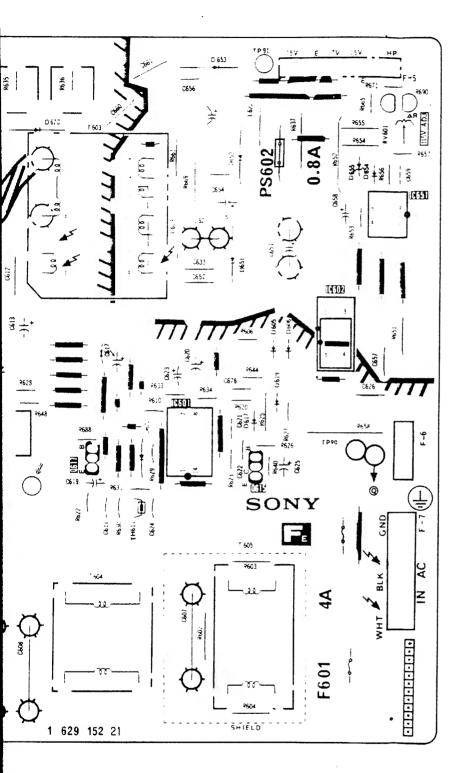
- FE Board -

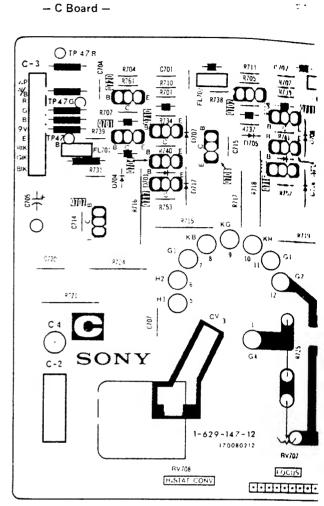


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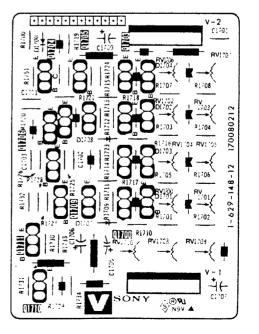


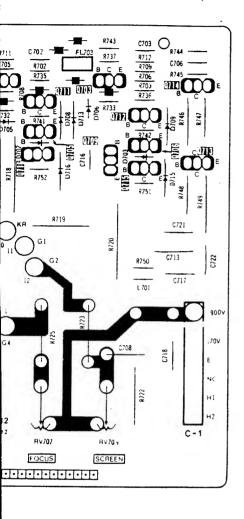




[WHITE BALANCE]

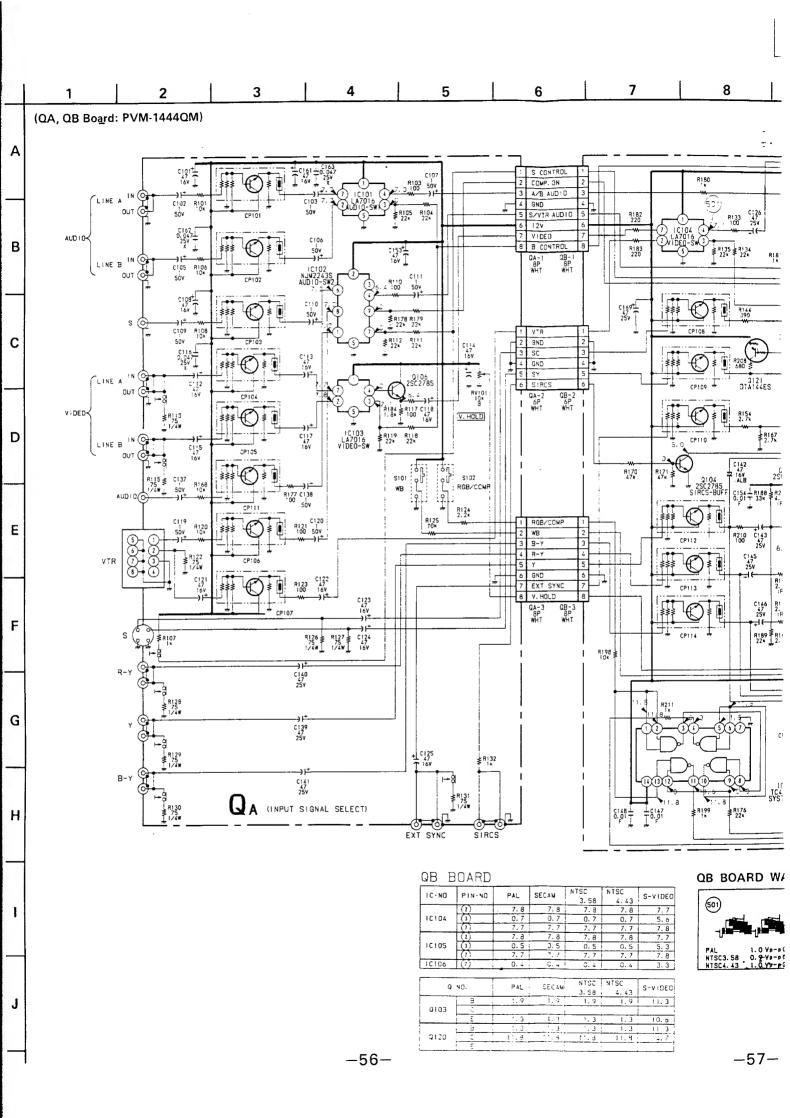
- V Board -

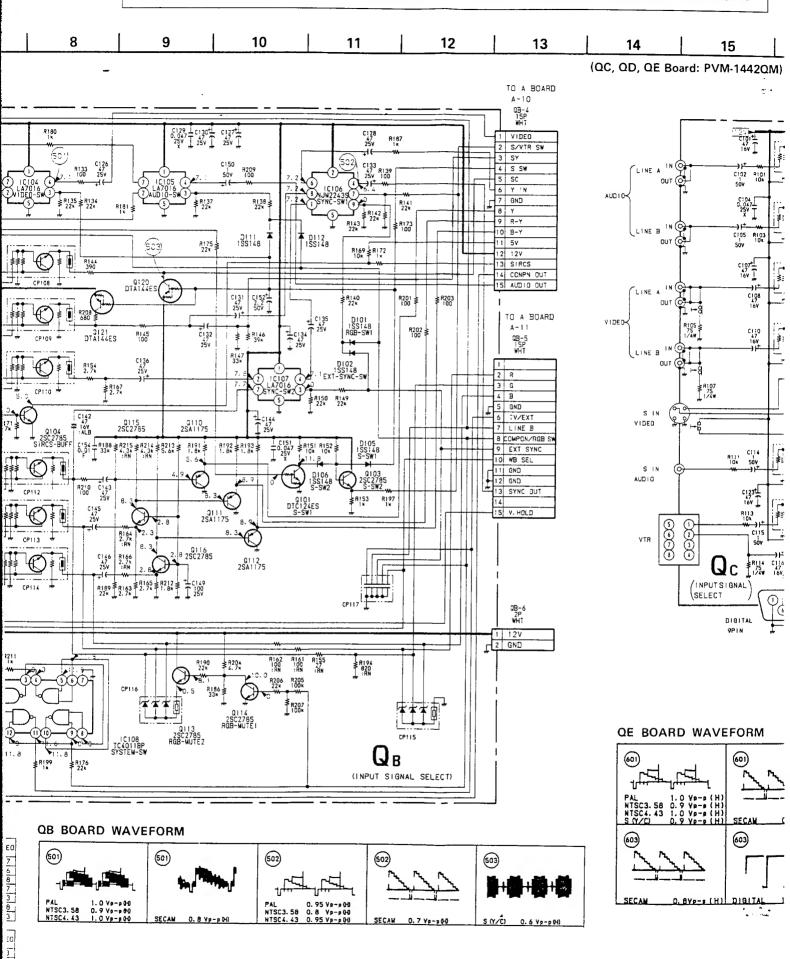


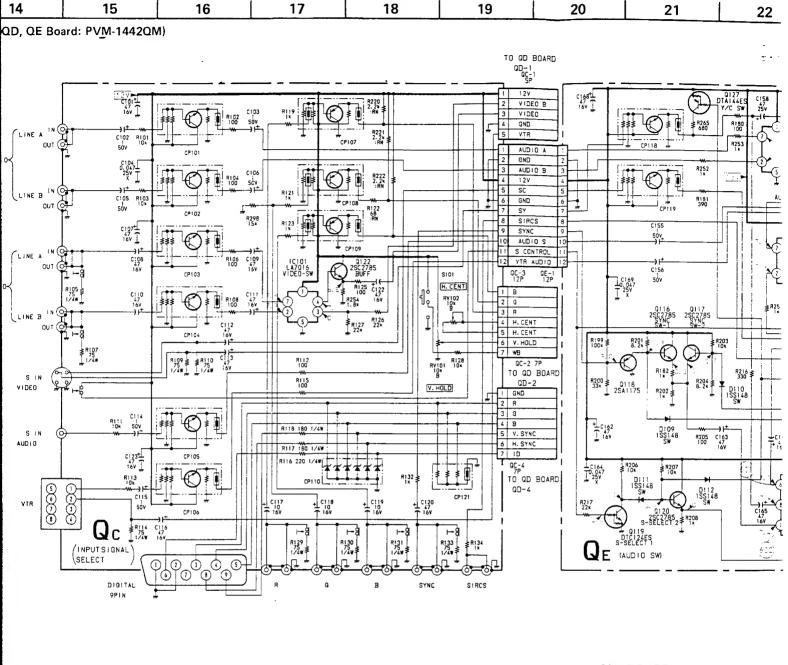


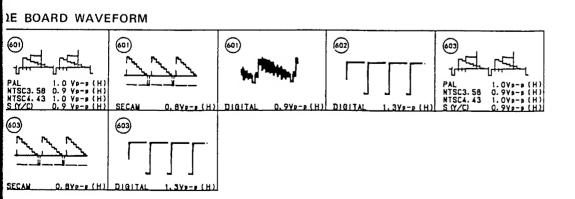
For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- mauritron@dial.plpex.com

-54-

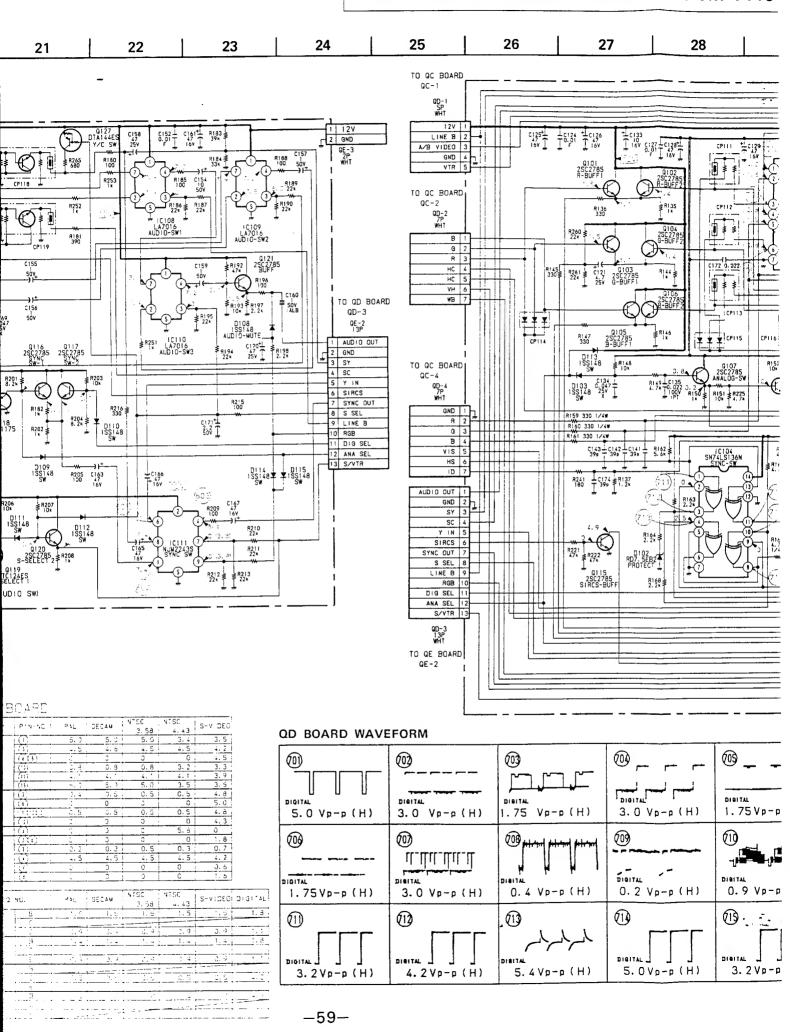


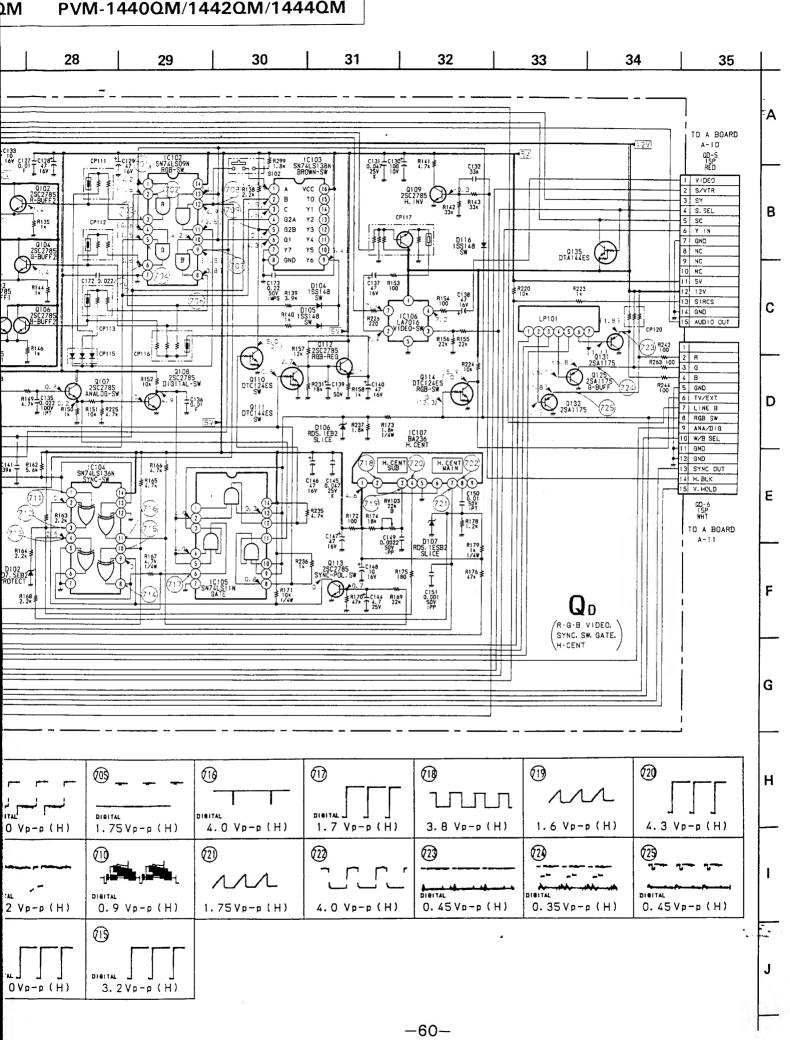


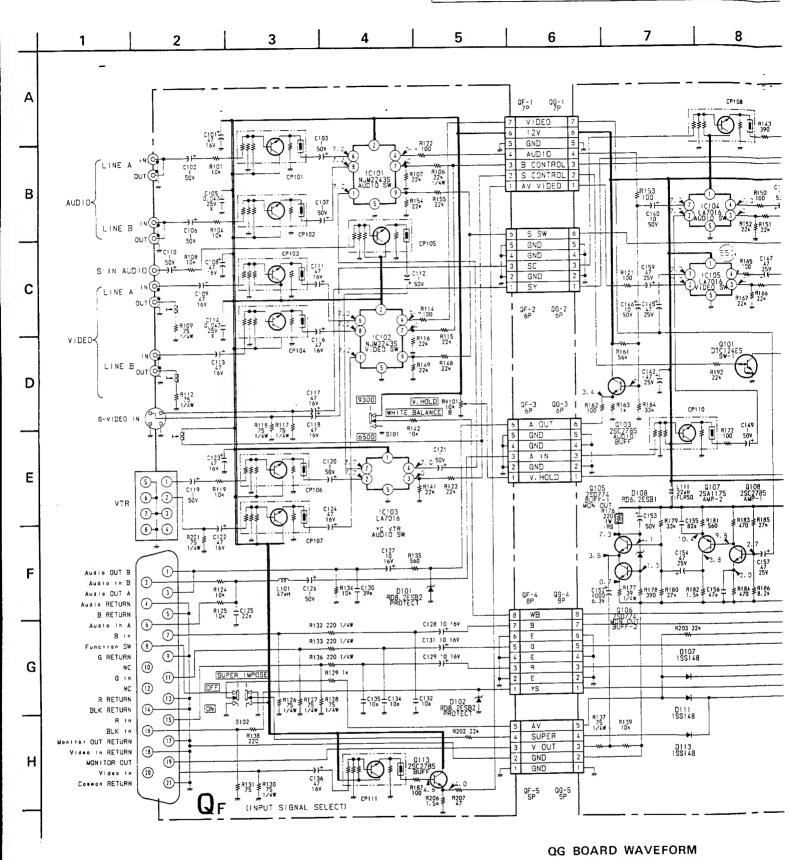




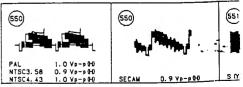
| MD E     | BOAPD  |        |               |                 |
|----------|--|--------|---------------|-----------------|
| : C - 40 | PINING   | :5 4 C | CECAN         | 1750<br>3, 58 × |
|          |  | 5. 3   | 5             | 3, 58 ×<br>5, 3 |
|          | (1)  | 4.5    | 4. 5          |                 |
| :0104    | 113(8)   | 5      | 3             | J               |
|          | 710  | ე. გ   | €. 9          | ე. გ            |
|          | (10)   | 4.     | 4. 1          | 4.              |
|          | (1)  | 5. 7   | 5. 3          | 5. 3            |
|          | 1(1)   | 0.4    | J. 5          | 3. 5            |
| 5 4 0 =  | 1 (6)  | 0      | o o           | · 0             |
| 10105    | 1111   | 0.5    | J. 5          | 0.5             |
|          | (2)  |        | 16            | 0               |
| 0105     | 1 (3)  | 0      | 3             | - c             |
| •        | (2)(6)   | - :    | 3             | 3 .             |
|          | . (3)  | 0.2    | 0.3           | 0.5             |
| 10107    |  | 1.5    | 4.5           |                 |
|          | <del>:                                    </del> |        | 2             | 0               |
|          |  | 5      |               | 0 0             |
|          |  |        |               |                 |
| 3        | ne.  | - A    | S604 <b>v</b> | √*30<br>3, 58 [ |
|          |  | 1.5    | i. 2 🔻        | ر قہ            |
| 11:00    | ,  |        |               | That.           |
|          | -  | 7. 7   | 2. 4          | 3. 4            |
|          |  |        | 1             |                 |
| 16.1     | :  |        |               |                 |
|          |  |        | 3. 3          | 2. 9            |
|          | .:   |        |               |                 |
| 1000     |  |        | 1. 1          | 3. 5            |
|          |  |        |               |                 |
|          | <del></del>                                      |        |               | 3               |
|          | - '  |        |               |                 |
| •        |  |        |               |                 |
|          |  | _ :=:  |               |                 |



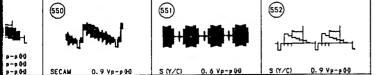




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(INPUT SIGNAL SELECT)



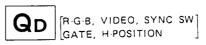
D113 1\$\$148

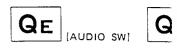
**WAVEFORM** 

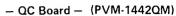
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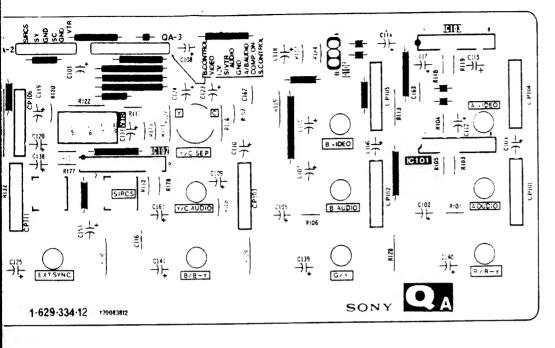


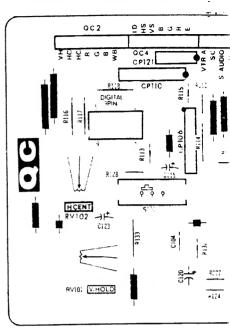


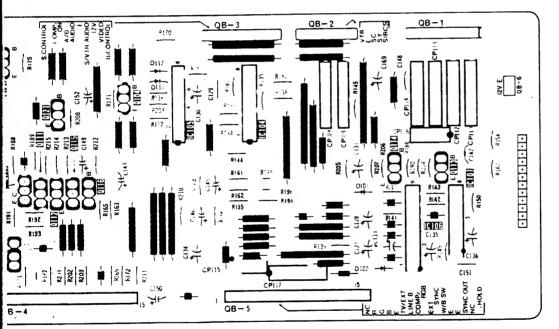




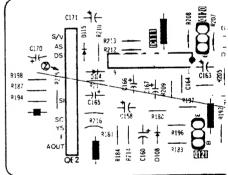




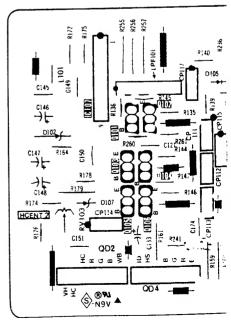




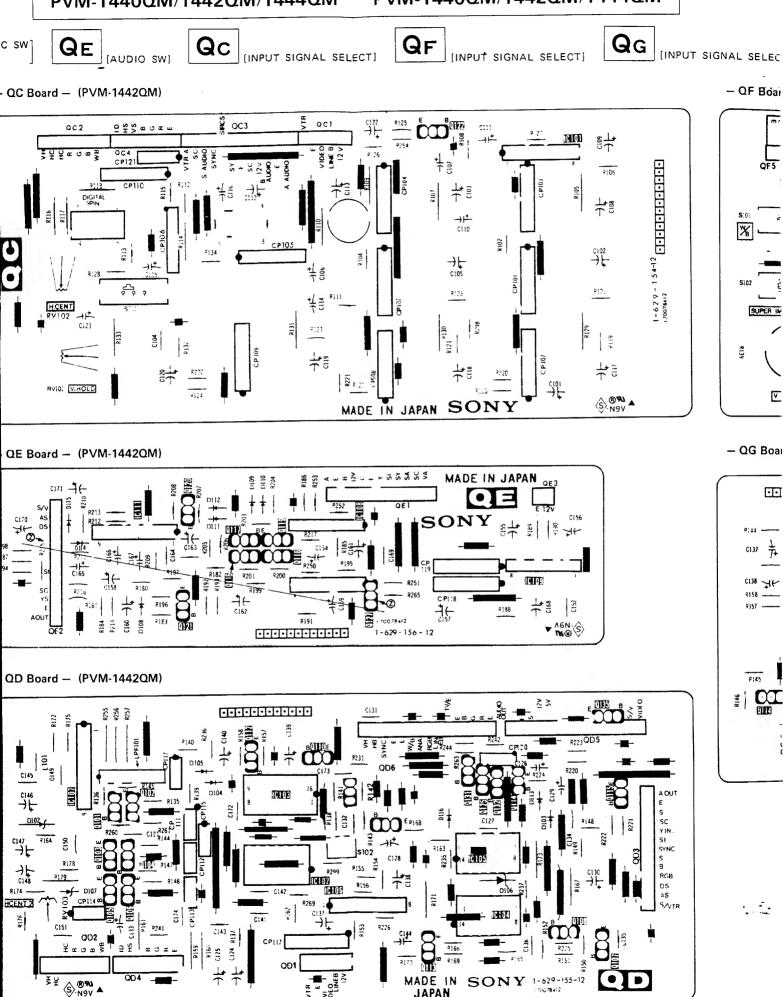
## - QE Board - (PVM-1442QM)



## - QD Board - (PVM-1442QM)



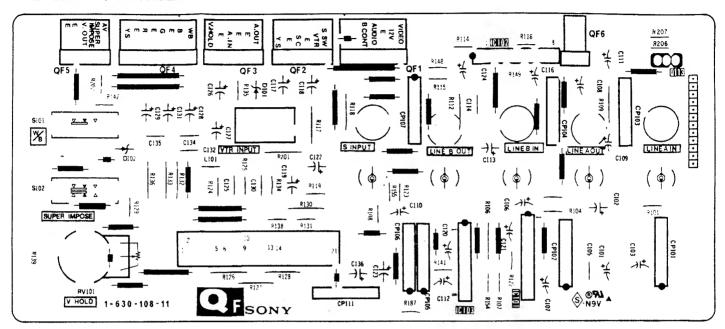
## PVM-1440QM/1442QM/1444QM PVM-1440QM/1442QM/1444QM



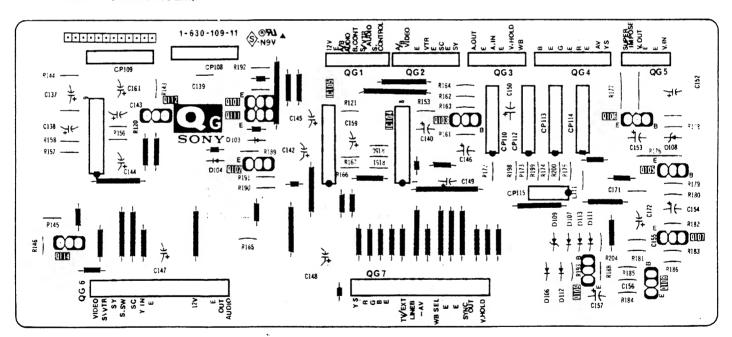
JAPAN

## INPUT SIGNAL SELECT)

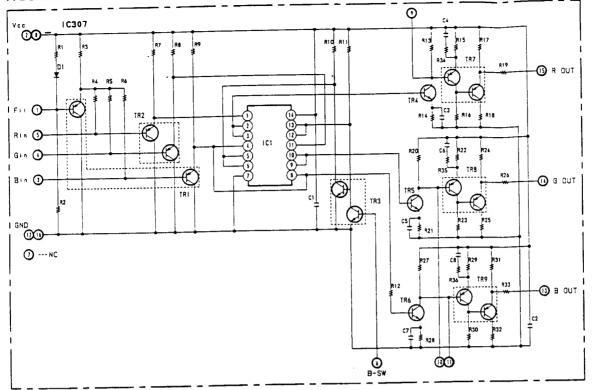
## - QF Board - (PVM-1440QM)



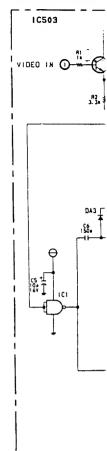
## - QG Board - (PVM-1440QM)



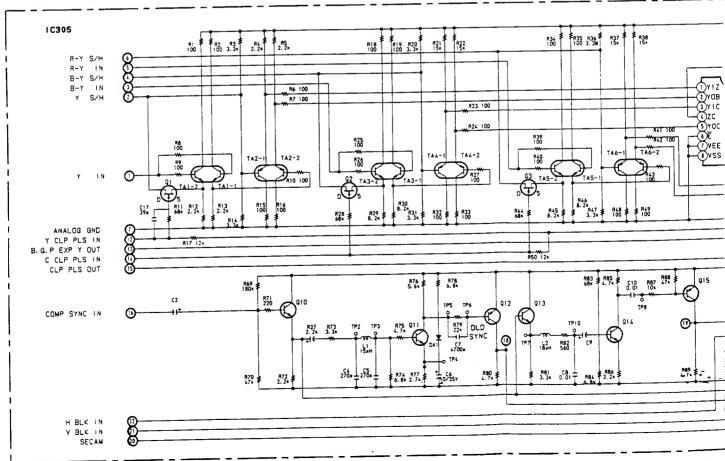




#### A BOARD IC503



#### A BOARD IC 305



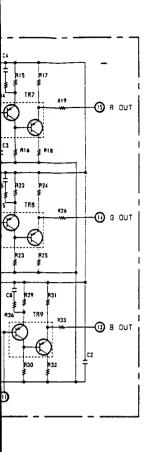
A BOARI

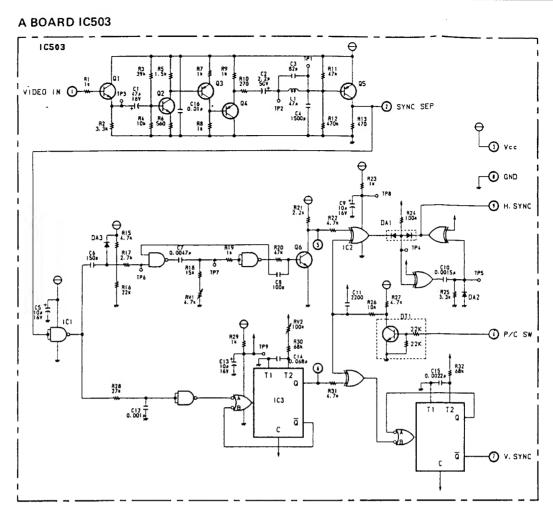
A BOARI

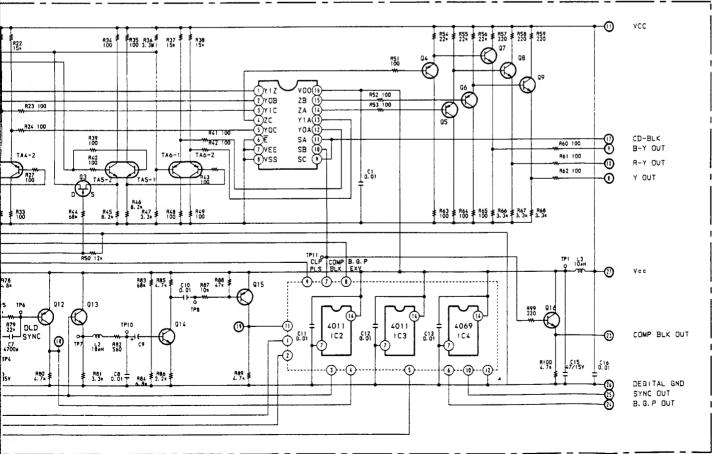
SW 11)-

GND Ø-

A BOARI

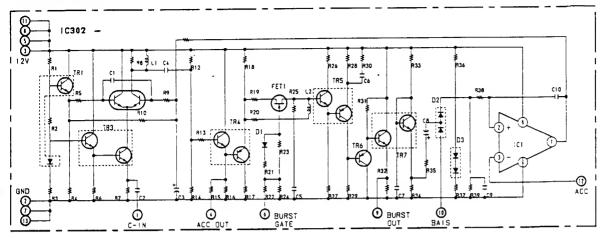




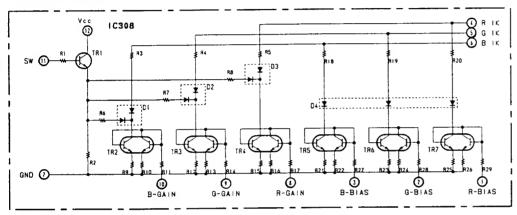


## QM/1442QM/1444QM

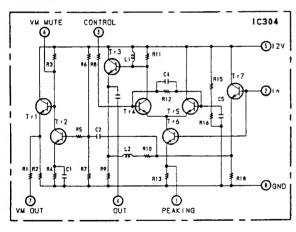
#### A BOARD IC302



#### A BOARD IC308



## A BOARD IC304



6-6. SEMIC



BX-

cx-

CX2

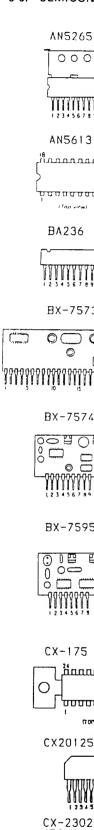
CX-IR9 LA7 UPC UPC

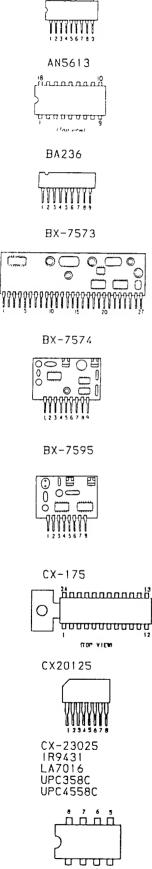
ERC26-15 VIIN.

**GPO8D** 

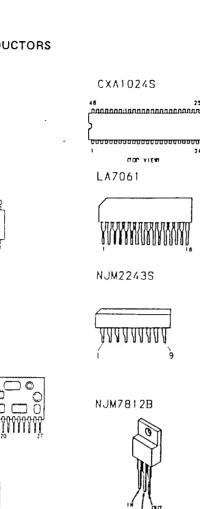
catho

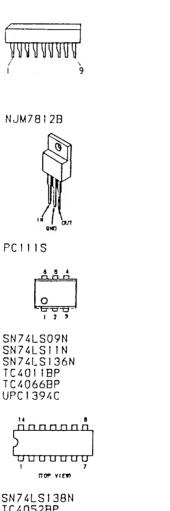
#### 6-6. SEMICONDUCTORS

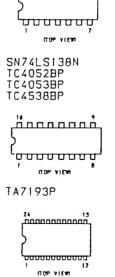


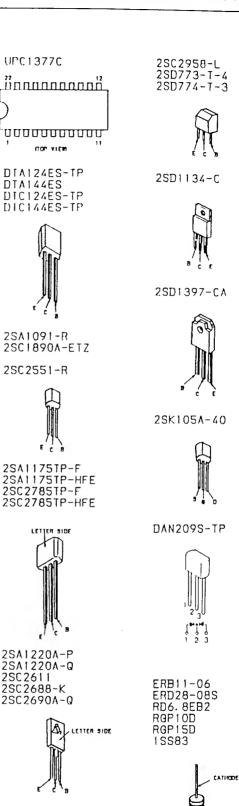


COP VIEW









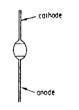




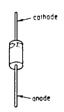
GP08D



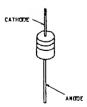
RD4.3ES-T1L2



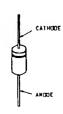
RD5. 6EBZ75TN



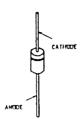
RD5.1ES-2V RD5.6ES-T1L1 RD6.2ES-T1B2 RD6.8ES-T1B2 RD8.2ES-T1B2 RD10ES-T1B1 RD10ES-T1L3 RD13ES-T1B3 RD15ES-T1B3 RD15ES-T1B3 RD16ES-T1B3 RD16ES-T1B3



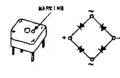
RD-6.8EB-2 RD16EB3TN RD24EB27TN 10E2-TA2B



RD110EBTN RH-1Z RU2AM S1B01-06 S1B01-04TP1



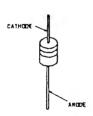
S3WB60Z



V19E



1SS148 1SS148-TP7



· ·

## SECTION 7 **EXPLODED VIEWS**

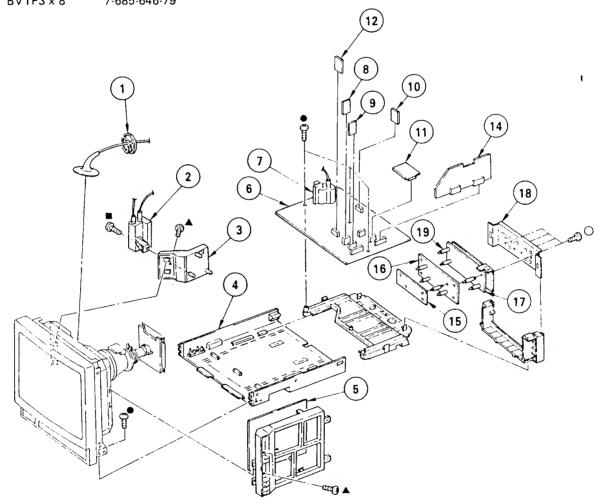
#### NOTE:

- · Items with no part number and no des-
- Trems with no park number and no description are not stocked because they are seldom required for routine service.
   The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

WAXWAMANA BARKARAMBARA The components identified by shading and mark A are critical for safety. Replace only with part number specified. 

#### 7-1. CHASSIS

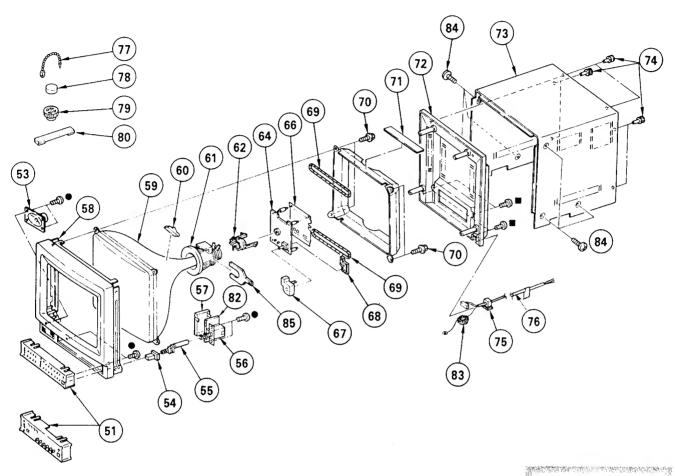
| ●: BVTP3 x 12 | 7-685-648-79 |
|---------------|--------------|
| ■: BVTP4 x 16 | 7-685-663-79 |
| ▲: BVTT4 x 8  | 7-682-561-04 |
| O · RVTP3 x 8 | 7-685-646-79 |



| REF.NO. PART NO. | DESCRIPTION  | REMARK | REF.NO                     | D. PART NO.   | DESCRIPTION  | REMARK  |
|------------------|--|--------|----------------------------|---|--|---|
| 5 *A-1245-456-A  | HOLDER, HV CABLE RESISTOR ASSY, HIGH-VOLTAGE BRACKET, HVR CABINET ASSY, BOTTOM FE BOARD, COMPLETE A BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK W BOARD XA BOARD Y BOARD V BOARD U BOARD V BOARD |        | 14<br>15<br>16<br>17<br>18 | *A-1135-564-A<br>*A-1135-573-A<br>*A-1270-249-A<br>*A-1270-267-A<br>*A-1270-246-A<br>*A-1270-246-A<br>*A-1270-247-A<br>*A-1270-245-A<br>4-391-843-32<br>4-391-843-12<br>4-391-843-02<br>*3-682-419-01 | BA BOARD, COMPLETE  QE BOARD, COMPLETE  QG BOARD, COMPLETE  QD BOARD, COMPLETE  QB BOARD, COMPLETE  QC BOARD, COMPLETE  QC BOARD, COMPLETE  QA BOARD, COMPLETE  QA BOARD, COMPLETE  QLATE, TERMINAL (PV  PLATE, TERMINAL (PV  PLATE, TERMINAL (PV) | (PYM-1442QM/ 1444QM ONLY) (PYM-1442QN ONLY) (PYM-1440QM ONLY) (PYM-1441QM ONLY) (PYM-1441QM ONLY) (PYM-1444QM ONLY) (PYM-1444QM ONLY) (PYM-1444QM ONLY) (M-1440QM ONLY) (M-1442QM ONLY) |

## 7-2. PICTURE TUBE

●: BVTP3 x 12 7-685-648-79 ■: BVTP4 x 16 7-685-663-79



The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

| REF.NO. PART NO.   | DESCRIPTION  | REMARK | REF.NO. PART NO.  | DESCRIPTION   | REMARK |
|--|--|--------|---|---|--------|
| 1-466-076-11<br>1-466-075-11<br>53 1-544-063-11<br>54 4-374-839-11<br>55 4-391-824-01<br>56 A. 1-554-967-12<br>57 *4-391-830-01<br>58 X-4391-804-1<br>X-4391-804-2<br>59 Δ. 8-736-254-05<br>Δ. 8-734-621-05<br>60 3-703-961-01<br>61 Λ. 1-451-329-11<br>62 *4-382-050-01 | CONTROL UNIT (PVM-1442QM ONLY) CONTROL UNIT (PVM-1444QM ONLY) SPEAKER BUTTON (A) JOINT SWITCH, PUSH (AC POWER) (1 KEY) COVER, AC SWITCH BEZEL ASSY (PVM-1442QM/44QM ONLY) PICTURE TUBE (A34JHS10X) (PVM-1440QM ONLY) PICTURE TUBE (M34KBE21X) (PVM-1442QM/1444QM ONLY) SPACER, DY DEFLECTION YOKE (Y14FZA) | )      | 67 *4-374-912-01<br>68 *4-374-913-01<br>69 \( \Lambda \).1-426-145-13<br>70 4-391-833-01<br>72 4-391-833-01<br>73 X-4391-810-1<br>74 4-391-825-01<br>75 \( \Lambda \).*4-364-745-01<br>76 \( \Lambda \).1-574-389-12<br>77 4-308-870-00<br>78 1-452-032-00<br>79 1-452-094-00<br>80 X-4309-608-0<br>82 *1-629-153-11<br>83 1-543-604-11 | COVER ASSY, TOP RIVET, NYLON BUSHING, AC CORD CORD, POWER CLIP, LEAD WIRE MAGNET, DISK; 10MM ¢ MAGNET, ROTATABLE DISK; 15MM ¢ PERMALLOY ASSY, CONVERGENCE J BOARD |        |

## SECTION 8 **ELECTRICAL PARTS LIST**

NOTE:

The components identified by 

- · Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

• MF : µF, PF : µµF

• MMH : ιαΗ, UH : μΗ

RESISTORS

- · All resistors are in ohms
- F : nonflammable

• \* : Selected to yield optimum performance.

|   |                               |   |                                 |                                 |                                      | A  |   |   |                                 |                                  |
|---|-------------------------------|---|---------------------------------|---------------------------------|--------------------------------------|--|---|---|---------------------------------|----------------------------------|
| KEF.NO. PART NO.  | DESCRIPTION                   |   |                                 | REMARK                          | REF.NO.                              | PART NO.   | DESCRIPTION                                     | l<br>-  |                                 | REMARK                           |
| *A-1135-573-A   | BA BOARD, CO                  | MPLETE (PVM-                                    | 1442QM                          | /<br>(N 1 N)                    | C269                                 | 1-102-978-00   | CERAMIC   | 220PF   | 5%                              | 50 <b>V</b>                      |
| *A-1135-564-A   | BA BOARD, CO                  | MPLETE (PVM-)                                   |                                 |                                 | C271<br>C272<br>C273<br>C280<br>C281 | 1-101-004-00<br>1-101-002-00<br>1-101-002-00<br>1-108-624-11<br>1-124-478-11 | CERAMIC<br>CERAMIC<br>CERAMIC<br>MYLAR<br>ELECT | 0.01MF<br>0.0022MF<br>0.0022MF<br>0.0068MF<br>100MF | 10%<br>20%                      | 50V<br>50V<br>50V<br>100V<br>25V |
| <con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>C292</td><td>1-101-004-00</td><td>CERAMIC</td><td>0.01MF</td><td></td><td>50<b>V</b></td></con<>  | NECTOR>                       |   |                                 |                                 | C292                                 | 1-101-004-00   | CERAMIC   | 0.01MF  |                                 | 50 <b>V</b>                      |
| BA1 #1-565-491-11<br>BA2 #1-565-491-11  | CONNECTOR, B                  | OARD TO BOAR<br>OARD TO BOAR                    | D 15P<br>D 15P                  |                                 | C401<br>C402<br>C403<br>C404         | 1-123-875-11<br>1-101-888-00<br>1-102-116-00                                 | ELECT<br>CERAMIC<br>CERAMIC<br>FILM             | 10MF<br>68PF<br>680PF<br>0.047MF                    | 20%<br>5%<br>10%<br>5%          | 50V<br>50V<br>50V<br>50V         |
| <fil< td=""><td>TER&gt;</td><td></td><td></td><td></td><td>C405</td><td>1-102-074-00</td><td>CERAMIC</td><td>0.001MF</td><td>10%</td><td>50<b>V</b></td></fil<> | TER>                          |   |                                 |                                 | C405                                 | 1-102-074-00   | CERAMIC   | 0.001MF   | 10%                             | 50 <b>V</b>                      |
| BPF243 1-236-363-11<br>BPF244 1-236-364-11  | FILTER, BAND<br>FILTER, BAND  | PASS<br>PASS                                    |                                 |                                 | C406<br>C407<br>C408<br>C409         | 1-124-477-11<br>1-101-890-00<br>1-102-960-00<br>1-136-165-00                 |   | 47MF<br>75PF<br>27PF<br>0.1MF                       | 20%<br>5%<br>5%<br>5%           | 25V<br>50V<br>50V<br>50V         |
| <caf< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>0.1MF</td><td>5%</td><td>507</td></caf<>                              | ACITOR>                       |   |                                 |                                 | 1                                    |  |   | 0.1MF   | 5%                              | 507                              |
| C201 1-124-120-11<br>C202 1-102-125-00<br>C203 1-102-125-00<br>C207 1-124-477-11  | CERAMIC<br>CERAMIC<br>ELECT   | 220MF<br>0.0047MF<br>0.0047MF<br>47MF           | 20%<br>10%<br>10%<br>20%        | 25V<br>50V<br>50V<br>25V<br>25V | C410<br>C411<br>C412<br>C413<br>C414 | 1-136-165-00<br>1-136-165-00<br>1-102-129-00<br>1-124-499-11<br>1-136-173-00 | FILM  | 0.1MF<br>0.01MF<br>0.01MF<br>1MF<br>0.47MF          | 5%<br>10%<br>20%<br>5%          | 50V<br>50V<br>50V<br>50V         |
| C208 1-124-477-11   |                               | 47MF  | 20%                             |                                 | C415                                 | 1-123-875-11   |   | 10MF  | 20%                             | 50 <b>V</b>                      |
| C209 1-124-477-11<br>C210 1-124-477-11<br>C211 1-124-477-11<br>C212 1-124-477-11<br>C213 1-124-477-11   | ELECT                         | 47MF<br>47MF<br>47MF<br>47MF<br>47MF            | 20%<br>20%<br>20%<br>20%<br>20% | 25V<br>25V<br>25V<br>25V<br>25V | C416<br>C417<br>C418<br>C419         | 1-102-118-00<br>1-124-477-11<br>1-124-499-11<br>1-124-478-11                 | CERAMIC<br>ELECT<br>ELECT<br>ELECT              | 0.0012MF<br>47MF<br>1MF<br>100MF                    | 10%<br>20%<br>20%<br>20%<br>20% | 50V<br>25V<br>50V<br>25V         |
|   |                               |   | 20%                             | 50Y                             | C420<br>C421                         | 1-136-165-00<br>1-102-960-00   | FILM  | 0.1MF<br>27PF                                       | 5%<br>5%                        | 50V<br>50V                       |
| C214 1-101-004-00<br>C221 1-124-902-00<br>C222 1-124-464-11<br>C223 1-102-959-00<br>C224 1-101-888-00   | ELECT<br>ELECT<br>CERAMIC     | 0.01MF<br>0.47MF<br>0.22MF<br>22PF<br>68PF      | 20%<br>20%<br>5%<br>5%          | 50V<br>50V<br>50V<br>50V        | C422<br>C423<br>C424                 | 1-136-165-00<br>1-123-875-11<br>1-136-165-00                                 |   | 0.1MF<br>10MF<br>0.1MF                              | 5%<br>5%<br>20%<br>5%           | 50 V<br>50 V<br>50 V             |
| C230 1-124-120-11   |                               | 220MF   | 20%                             | 25V                             | C425<br>C426                         | 1-101-361-00<br>1-101-890-00   |   | 150PF<br>75PF                                       | 5%<br>5%                        | 50 <b>V</b><br>50 <b>V</b>       |
| C240 1-101-004-00<br>C241 1-124-120-11<br>C242 1-124-478-11<br>C243 1-124-120-11  |                               | 0.01MF<br>220MF<br>100MF<br>220MF               | 20%<br>20%<br>20%               | 50V<br>25V<br>25V<br>25V        | C427<br>C428<br>C429                 | 1-124-120-11<br>1-124-477-11   | ELECT<br>Elect                                  | 220MF<br>47MF<br>47MF                               | 20%<br>20%<br>20%               | 25V<br>25V<br>25V                |
| C245 1-101-004-00   |                               | 0.01MF  | 204                             | 50V                             | C430<br>C431                         | 1-101-004-00<br>1-101-884-00   | CERAMIC   | 0.01MF<br>56PF                                      | 5%                              | 50Y<br>50Y                       |
| C246 1-123-875-11<br>C247 1-101-004-00<br>C248 1-102-125-00<br>C250 1-161-021-11  | ELECT                         | 0.01mr<br>10MF<br>0.01MF<br>0.0047MF<br>0.047MF | 20%<br>10%<br>10%               | 50V<br>50V<br>50V<br>25V        | C432<br>C433<br>C434                 | 1-101-004-00<br>1-124-478-11<br>1-101-884-00                                 | CERAMIC<br>ELECT<br>CERAMIC                     | 0.01MF<br>100MF<br>56PF                             | 20%<br>5%                       | 50V<br>25V<br>50V                |
|   | CERAMIC                       | 0.0047MF  | 10%                             | 50V                             | C435<br>C441                         | 1-101-884-00<br>1-102-959-00   |   | 56PF<br>22PF  | 5%<br>5%                        | 50 <b>V</b><br>50 <b>V</b>       |
| C251  | CERAMIC<br>CERAMIC<br>CERAMIC | 0.0047MF<br>0.0047MF<br>0.0047MF<br>0.01MF      | 10%<br>10%<br>10%               | 50Y<br>50Y<br>50Y<br>50Y        | C442                                 | 1-161-021-11   |   | 0.047MF   | 10%                             | 25V                              |
|   |                               | 220PF   | 5%                              | 50¥                             | CFM201                               | 1-464-880-11   | FILTER BLOC                                     | K, COM (CFB-  | -2)                             |                                  |
| C265 1-102-978-00<br>C266 1-101-003-00<br>C267 1-124-478-11<br>C268 1-101-003-00  | CERAMIC<br>ELECT              | 0.0047MF<br>100MF<br>0.0047MF                   | 20%                             | 50¥<br>25¥<br>50¥               |                                      |  |   |   |                                 |                                  |



| REF.NO.                      | PART NO.   | DESCRIPTION  |                               | REMARK                                       | REF.NO.                              | PART NO.   | DESCRIPTIO                             | N                                   |                      |                              | REMARK |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|--|--|-------------------------------|--|--------------------------------------|--|--|-------------------------------------|----------------------|------------------------------|--------|--------------|--|----------------------------------|-----------|--|--------------|--------------|--------|-----|----------|------|---|----------------------|--|--|-------|--|----------------------|--|--------------------------------------|---------------------------|----------------|------------------------------|--|--------------|------------------------------|----------------------------------|--------|--|--------------|------------------------------|--------|-----|----------|------|--|----------------------|--|----------------|-----------|--|------------------------------|--|------------------|--------------------------|----------------------|------------------------------|--|--------------|------------------------------|---------------|-----------|--|------|--------------|--------|-----|--|--------------|--|----------------------|--|---------------|--------|--|------------------------------|--|----------------------------|--------------------------|----------------------|----------------------|--|--------------|--|---------------|-----------|--|--------------|--------------|--------|-------------|----|--------------|--|----------------------|--|---------------|-----------|--|--------------|------------------------------|--------|-------------|----|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                              | <br><modi< td=""><td></td><td></td><td></td><td> </td><td></td><td></td><td>-</td><td></td><td></td><td></td></modi<>  |  |                               |  |                                      |  |  | -                                   |                      |                              |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CTR211<br>PCM290             | 1-236-366-11<br>1-236-365-11   | MODULE, TRAP<br>MODULE, TRAP<br>MODULE, PHASE F<br>MODULE      | PHM-1                         |  | Q261<br>Q262<br>Q263<br>Q264<br>Q265 | 8-729-119-78   | TRANSISTOR                             | 2SC2785-Н<br>2SC2785-Н<br>2SA1175-Н | FE<br>FE<br>IFE      |                              |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | <010   |  |                               |  | Q280<br>Q401<br>Q402                 | 8-729-119-78   | TRANSISTOR TRANSISTOR                  | 2SC2785-H<br>2SC2785-H              | FE                   |                              |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D210<br>D211<br>D212<br>D240 |  | DIODE 1SS119<br>DIODE 1SS119<br>DIODE 1SS119<br>DIODE RD10ES-B |                               |  | Q403<br>Q404<br>Q405                 | 8-729-119-78<br>8-729-900-63                                 | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR | 2SC2785-H                           | IFE                  |                              |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D280<br>D401                 | 8-719-911-19<br>8-719-911-19   | DIODE 188119 DIODE 188119                                      | •                             |  | Q406<br>Q407<br>Q408<br>Q409         | 8-729-119-78<br>8-729-119-78<br>8-729-119-78<br>8-729-119-78 | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR | 2SC2785-1<br>2SC2785-1<br>2SC2785-1 | IFE<br>IFE           |                              |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D402                         | 8-719-911-19 <del< td=""><td>AY LINE&gt;</td><td></td><td></td><td>Q410<br/>Q411</td><td>8-729-119-78<br/>8-729-119-76</td><td>TRANSISTOR</td><td>2SC2785-F</td><td>łFE</td><td></td><td></td></del<>  | AY LINE>   |                               |  | Q410<br>Q411                         | 8-729-119-78<br>8-729-119-76                                 | TRANSISTOR                             | 2SC2785-F                           | łFE                  |                              |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DI.230                       |  | DELAY LINE, Y  |                               |  |                                      | < RFS  | ISTOR>                                 |                                     |                      |                              |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | <1C>   |  |                               |  | JW95                                 | 1-249-411-11   | CARBON                                 | 330                                 | 5%<br>5%             | .1/4W                        |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TC201                        | 8-749-920-73<br>8-759-800-81<br>8-759-240-53   | IC BX7595<br>IC LA7016<br>IC TC4053BP                          |                               |  | R201<br>R202<br>R203<br>R204         | 1-249-435-11<br>1-249-435-11<br>1-249-405-11<br>1-249-421-11 | CARBON<br>CARBON                       | 33K<br>33K<br>100<br>2.2K           | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10250<br>10260               | 8-759-800-81<br>8-759-208-14   | IC LA7016<br>IC TC4066BPHB                                     |                               |  | R205<br>R206                         | 1-249-433-11<br>1-249-432-11<br>1-249-409-11                 | CARBON                                 | 22K<br>18K<br>220                   | 5%<br>5%             | 1/4W<br>1/4W<br>1/4W         |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 C 2 6 1<br>1 C 4 0 1       | 8-759-208-14<br>8-751-750-00   | IC TC4066BPHB<br>IC CX-175                                     |                               |  | R207<br>R210<br>R211                 | 1-249-437-11<br>1-249-437-11<br>1-249-437-11                 | CARBON<br>CARBON                       | 47K<br>47K                          | 5%<br>5%<br>5%       | 1/4W<br>1/4W                 |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | <c01< td=""><td></td><td>4000</td><td></td><td>R212<br/>R213</td><td>1-249-437-11<br/>1-249-429-11</td><td>CARBON<br/>CARBON</td><td>47K<br/>10K<br/>22K</td><td>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></c01<>   |  | 4000                          |  | R212<br>R213                         | 1-249-437-11<br>1-249-429-11                                 | CARBON<br>CARBON                       | 47K<br>10K<br>22K                   | 5%<br>5%             | 1/4W<br>1/4W<br>1/4W         |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| L280<br>L282<br>L401<br>L402 | 1-410-509-11<br>1-410-470-11<br>1-410-087-31<br>1-408-411-00   | INDUCTUR<br>INDUCTOR<br>INDUCTOR<br>INDUCTOR                   | 10UH<br>10UH<br>10MMH<br>15UH |  | R214<br>R215<br>R216                 | 1-249-433-11<br>1-249-437-11<br>1-249-429-11                 | CARBON<br>CARBON                       | 47K<br>10K                          | 5%<br>5%<br>5%       | 1/4W<br>1/4W                 |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| L403<br>L404                 | 1-404-496-00<br>1-408-411-00   | COIL<br>INDUCTOR   | 15UH                          |  | R217<br>R218<br>R219                 | 1-249-429-11<br>1-249-425-11<br>1-249-405-11                 | CARBON<br>CARBON                       | 10K<br>4.7K<br>100<br>8.2K          | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.405<br>1.406<br>1.408      | 1-404-496-00<br>1-410-470-11<br>1-410-336-11   | INDUCTOR   | 10UH<br>220UH                 |  | R220<br>R221<br>R222                 | 1-249-428-11<br>1-249-423-11<br>1-249-439-11                 |  | 3.3K<br>68K                         |                      | 1/4W<br>1/4W                 |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | <tr <="" td=""><td>ANSISTOR&gt;</td><td></td><td></td><td>R224<br/>R225</td><td>1-249-439-11<br/>1-249-439-11<br/>1-249-439-11</td><td>CARBON<br/>CARBON</td><td>68K<br/>68K<br/>68K</td><td>5%<br/>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>Q201<br/>Q210</td><td></td><td>TRANSISTOR 250<br/>TRANSISTOR 250</td><td>:2785-HFE</td><td></td><td>R226<br/>R227</td><td>1-249-386-11</td><td>CARBON</td><td>2.7</td><td>5%<br/>5%</td><td>1/4W</td><td>F</td></tr> <tr><td>Q211<br/>Q212<br/>Q213</td><td>8-729-119-76<br/>8-729-900-89<br/>8-729-900-89</td><td></td><td>144ES</td><td></td><td>R228<br/>R229<br/>R230</td><td>1-249-433-11<br/>1-249-433-11<br/>1-249-429-11</td><td>CARBON<br/>CARBON<br/>CARBON<br/>CARBON</td><td>22K<br/>22K<br/>10K<br/>2.7K</td><td>5%<br/>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>Q214<br/>Q221</td><td>8-729-119-78<br/>8-729-900-89</td><td>TRANSISTOR 250<br/>TRANSISTOR DTO</td><td>C144ES</td><td></td><td>R231<br/>R232</td><td>1-249-422-11<br/>1-249-415-11</td><td>CARBON</td><td>680</td><td>5%<br/>5%</td><td>1/4W</td><td></td></tr> <tr><td>Q222<br/>Q230<br/>Q231</td><td>8-729-900-63<br/>8-729-119-78<br/>8-729-119-78</td><td>TRANSISTOR 250</td><td>C2785-HFE</td><td></td><td>R233<br/>R234<br/>R235<br/>R236</td><td>1-249-415-11<br/>1-249-411-11<br/>1-249-416-11<br/>1-249-411-11</td><td>CARBON<br/>CARBON</td><td>680<br/>330<br/>820<br/>330</td><td>5%<br/>5%<br/>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>Q232<br/>Q233</td><td>8-729-119-78<br/>8-729-119-76</td><td>TRANSISTOR 25</td><td>11175-HFE</td><td></td><td>R237</td><td>1-249-411-11</td><td>CARBON</td><td>330</td><td></td><td>1/4W<br/>1/4W</td><td></td></tr> <tr><td>Q234<br/>Q240<br/>Q241</td><td>8-729-119-78<br/>8-729-177-42<br/>8-729-119-78</td><td>TRANSISTOR 25</td><td>0774-3</td><td></td><td>R238<br/>R239<br/>R240<br/>R241</td><td>1-249-405-11<br/>1-249-417-11<br/>1-249-407-11<br/>1-247-895-00</td><td>CARBON<br/>CARBON<br/>CARBON</td><td>100<br/>1K<br/>150<br/>470K</td><td>5%<br/>5%<br/>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>Q242<br/>Q243</td><td>8-729-119-78<br/>8-729-119-78<br/>8-729-119-78</td><td>TRANSISTOR 25</td><td>C2785-HFE</td><td></td><td>R242<br/>R243</td><td>1-249-421-11</td><td>CARBON</td><td>2.2K<br/>33K</td><td>5%</td><td>1/4W<br/>1/4W</td><td></td></tr> <tr><td>9258<br/>9259<br/>9260</td><td>8-729-119-78<br/>8-729-119-78<br/>8-729-900-89</td><td>TRANSISTOR 25</td><td>C2785-HFE</td><td></td><td>R244<br/>R245</td><td>1-249-435-11<br/>1-249-422-11</td><td>CARBON</td><td>33K<br/>2.7K</td><td>5%</td><td>1/4W<br/>1/4W</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> | ANSISTOR>  |                               |  | R224<br>R225                         | 1-249-439-11<br>1-249-439-11<br>1-249-439-11                 | CARBON<br>CARBON                       | 68K<br>68K<br>68K                   | 5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W         |        | Q201<br>Q210 |  | TRANSISTOR 250<br>TRANSISTOR 250 | :2785-HFE |  | R226<br>R227 | 1-249-386-11 | CARBON | 2.7 | 5%<br>5% | 1/4W | F | Q211<br>Q212<br>Q213 | 8-729-119-76<br>8-729-900-89<br>8-729-900-89 |  | 144ES |  | R228<br>R229<br>R230 | 1-249-433-11<br>1-249-433-11<br>1-249-429-11 | CARBON<br>CARBON<br>CARBON<br>CARBON | 22K<br>22K<br>10K<br>2.7K | 5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |  | Q214<br>Q221 | 8-729-119-78<br>8-729-900-89 | TRANSISTOR 250<br>TRANSISTOR DTO | C144ES |  | R231<br>R232 | 1-249-422-11<br>1-249-415-11 | CARBON | 680 | 5%<br>5% | 1/4W |  | Q222<br>Q230<br>Q231 | 8-729-900-63<br>8-729-119-78<br>8-729-119-78 | TRANSISTOR 250 | C2785-HFE |  | R233<br>R234<br>R235<br>R236 | 1-249-415-11<br>1-249-411-11<br>1-249-416-11<br>1-249-411-11 | CARBON<br>CARBON | 680<br>330<br>820<br>330 | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |  | Q232<br>Q233 | 8-729-119-78<br>8-729-119-76 | TRANSISTOR 25 | 11175-HFE |  | R237 | 1-249-411-11 | CARBON | 330 |  | 1/4W<br>1/4W |  | Q234<br>Q240<br>Q241 | 8-729-119-78<br>8-729-177-42<br>8-729-119-78 | TRANSISTOR 25 | 0774-3 |  | R238<br>R239<br>R240<br>R241 | 1-249-405-11<br>1-249-417-11<br>1-249-407-11<br>1-247-895-00 | CARBON<br>CARBON<br>CARBON | 100<br>1K<br>150<br>470K | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W |  | Q242<br>Q243 | 8-729-119-78<br>8-729-119-78<br>8-729-119-78 | TRANSISTOR 25 | C2785-HFE |  | R242<br>R243 | 1-249-421-11 | CARBON | 2.2K<br>33K | 5% | 1/4W<br>1/4W |  | 9258<br>9259<br>9260 | 8-729-119-78<br>8-729-119-78<br>8-729-900-89 | TRANSISTOR 25 | C2785-HFE |  | R244<br>R245 | 1-249-435-11<br>1-249-422-11 | CARBON | 33K<br>2.7K | 5% | 1/4W<br>1/4W |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ANSISTOR>                    |  |  | R224<br>R225                  | 1-249-439-11<br>1-249-439-11<br>1-249-439-11 | CARBON<br>CARBON                     | 68K<br>68K<br>68K  | 5%<br>5%<br>5%                         | 1/4W<br>1/4W<br>1/4W                |                      |                              |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q201<br>Q210                 |  | TRANSISTOR 250<br>TRANSISTOR 250                               | :2785-HFE                     |  | R226<br>R227                         | 1-249-386-11   | CARBON                                 | 2.7                                 | 5%<br>5%             | 1/4W                         | F      |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q211<br>Q212<br>Q213         | 8-729-119-76<br>8-729-900-89<br>8-729-900-89   |  | 144ES                         |  | R228<br>R229<br>R230                 | 1-249-433-11<br>1-249-433-11<br>1-249-429-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON   | 22K<br>22K<br>10K<br>2.7K           | 5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q214<br>Q221                 | 8-729-119-78<br>8-729-900-89   | TRANSISTOR 250<br>TRANSISTOR DTO                               | C144ES                        |  | R231<br>R232                         | 1-249-422-11<br>1-249-415-11                                 | CARBON                                 | 680                                 | 5%<br>5%             | 1/4W                         |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q222<br>Q230<br>Q231         | 8-729-900-63<br>8-729-119-78<br>8-729-119-78   | TRANSISTOR 250   | C2785-HFE                     |  | R233<br>R234<br>R235<br>R236         | 1-249-415-11<br>1-249-411-11<br>1-249-416-11<br>1-249-411-11 | CARBON<br>CARBON                       | 680<br>330<br>820<br>330            | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q232<br>Q233                 | 8-729-119-78<br>8-729-119-76   | TRANSISTOR 25  | 11175-HFE                     |  | R237                                 | 1-249-411-11   | CARBON                                 | 330                                 |                      | 1/4W<br>1/4W                 |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q234<br>Q240<br>Q241         | 8-729-119-78<br>8-729-177-42<br>8-729-119-78   | TRANSISTOR 25  | 0774-3                        |  | R238<br>R239<br>R240<br>R241         | 1-249-405-11<br>1-249-417-11<br>1-249-407-11<br>1-247-895-00 | CARBON<br>CARBON<br>CARBON             | 100<br>1K<br>150<br>470K            | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W         |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q242<br>Q243                 | 8-729-119-78<br>8-729-119-78<br>8-729-119-78   | TRANSISTOR 25  | C2785-HFE                     |  | R242<br>R243                         | 1-249-421-11   | CARBON                                 | 2.2K<br>33K                         | 5%                   | 1/4W<br>1/4W                 |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9258<br>9259<br>9260         | 8-729-119-78<br>8-729-119-78<br>8-729-900-89   | TRANSISTOR 25  | C2785-HFE                     |  | R244<br>R245                         | 1-249-435-11<br>1-249-422-11                                 | CARBON                                 | 33K<br>2.7K                         | 5%                   | 1/4W<br>1/4W                 |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              |  |  |                               |  |                                      |  |  |                                     |                      |                              |        |              |  |                                  |           |  |              |              |        |     |          |      |   |                      |  |  |       |  |                      |  |                                      |                           |                |                              |  |              |                              |                                  |        |  |              |                              |        |     |          |      |  |                      |  |                |           |  |                              |  |                  |                          |                      |                              |  |              |                              |               |           |  |      |              |        |     |  |              |  |                      |  |               |        |  |                              |  |                            |                          |                      |                      |  |              |  |               |           |  |              |              |        |             |    |              |  |                      |  |               |           |  |              |                              |        |             |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |

The components identified by shading and mark  $\hat{\Lambda}$  are critical for safety.
Replace only with part number specified.





| REF.NO. PART NO.  | DESCRIPTION                          |   | REMARK   RE     | F.NO. PA   | RT NO.  | DESCRIPTION                                     |  |                      |                           | REMARK                               |
|---|--------------------------------------|---|-----------------|--|---|---|--|----------------------|---------------------------|--------------------------------------|
| R246 1-249-435-11<br>R247 1-249-435-11<br>R248 1-249-422-11<br>R249 1-249-432-11                      | CARBON<br>CARBON<br>CARBON           | 33K 5% 1/4W<br>33K 5% 1/4W<br>2.7K 5% 1/4W<br>18K 5% 1/4W<br>100 5% 1/4W    | R.              | 423 1-<br>424 1-                                 | 249-419-11<br>249-421-11<br>249-429-11<br>249-414-11                    | CARBON<br>CARBON                                | 1.5K 5                                       | i <b>%</b> 1         | /4W<br>/4W<br>/4W<br>/4W  |                                      |
| R250 1-249-405-11  R251 1-249-433-11  R252 1-249-421-11  R253 1-249-415-11                            | CARBON<br>CARBON                     | 22K 5% 1/4W<br>2.2K 5% 1/4W<br>680 5% 1/4W                                  | R<br>R          | 426 1-<br>427 1-<br>428 1-                       | 249-422-11<br>249-423-11<br>249-412-11                                  | CARBON<br>CARBON                                | 10K 5560 552.7K 53.3K 55                     | 5% 1<br>5% 1         | /4W<br>/4W<br>/4W         |                                      |
| R254 1-249-420-11<br>R255 1-249-417-11<br>R256 1-249-405-11   | CARBON<br>CARBON                     | 1.8K 5% 1/4W<br>1K 5% 1/4W  | R               | 1430 1-<br>1431 1-                               | 249-425-11<br>249-408-11<br>-249-411-11<br>-249-422-11                  | CARBON<br>CARBON                                | 4.7K 5<br>180 5<br>330 5<br>2.7K 5           | 5% 1<br>5% 1<br>5% 1 | /4W<br>/4W<br>/4W<br>/4W  |                                      |
| R257 1-249-417-11<br>R258 1-249-405-11<br>R259 1-249-441-11<br>R260 1-249-425-11                      | CARBUN                               | 100 5% 1/4W<br>1K 5% 1/4W<br>100 5% 1/4W<br>100K 5% 1/4W<br>4.7K 5% 1/4W    | R<br>  R<br>  R | 1435 1-<br>1436 1-<br>1437 1-                    | -249-437-11<br>-249-433-11<br>-249-437-11<br>-249-437-11                | CARBON<br>CARBON<br>CARBON                      | 22K<br>47K<br>47K                            | 5% 1<br>5% 1<br>5% 1 | /4W<br>/4W<br>/4W<br>/4W  |                                      |
| R261 1-247-891-00<br>R262 1-249-435-11<br>R263 1-249-422-11<br>R264 1-249-422-11<br>R268 1-249-417-11 | CARBON<br>CARBON<br>CARBON           | 330K 5% 1/4W<br>33K 5% 1/4W<br>2.7K 5% 1/4W<br>2.7K 5% 1/4W<br>1K 5% 1/4W   | R<br>R<br>R     | R439 1-<br>R440 1-<br>R441 1-                    | -249-437-11<br>-249-426-11<br>-249-437-11<br>-249-440-11                | CARBON<br>CARBON<br>CARBON                      | 5.6K   | 5% 1<br>5% 1         | /4W<br>/4W<br>/4W         |                                      |
| R270 1-249-417-11<br>R271 1-249-417-11<br>R272 1-249-417-11<br>R273 1-249-426-11                      | CARBON<br>CARBON<br>CARBON           | 1K 5% 1/4W<br>1K 5% 1/4W<br>1K 5% 1/4W<br>5.6K 5% 1/4W<br>10K 5% 1/4W       | R<br>R<br>R     | R443 1-<br>R444 1-<br>R445 1-                    | -249-405-11<br>-249-432-11<br>-249-432-11                               | CARBON<br>CARBON<br>CARBON                      | 100 5  | 5% 1<br>5% 1         | /4W<br>/4W<br>/4W         |                                      |
| R274 1-249-429-11<br>R275 1-249-413-11<br>R276 1-249-417-11<br>R277 1-247-891-00                      | CARBON<br>CARBON<br>CARBON           | 10K 5% 1/4W<br>470 5% 1/4W<br>1K 5% 1/4W<br>330K 5% 1/4W<br>330K 5% 1/4W    | R<br>R          | R447 1-<br>R448 1-                               | -249-437-11<br>-249-437-11<br>-249-435-11<br>-249-417-11                | CARBON<br>CARBON                                | 33K  | 5% 1<br>5% 1         | /4W<br> /4W<br> /4W       |                                      |
| R278 1-247-891-00<br>R279 1-249-429-11<br>R280 1-249-429-11   | CARBON<br>CARBON<br>CARBON           | 1UK 5% 1/4W   |                 |  |   | IABLE RESISTOR                                  |  |                      |                           |                                      |
| R281 1-249-429-11<br>R282 1-249-429-11<br>R283 1-249-429-11<br>R284 1-249-429-11                      | CARBON<br>CARBON<br>CARBON           | 10K 5% 1/4W<br>10K 5% 1/4W<br>10K 5% 1/4W<br>10K 5% 1/4W<br>10K 5% 1/4W     | F               | RV291 1  | -228-991-00   | RES, ADJ, CAF<br>RES, ADJ, CAF<br>RES, ADJ, CAF | RBON 2.2                                     | K                    |                           |                                      |
| R285 1-249-429-11<br>R290 1-249-441-11<br>R291 1-249-413-11<br>R292 1-249-435-11<br>R293 1-249-435-11 | CARBON<br>CARBON<br>CARBON           | 10K 5% 1/4V<br>100K 5% 1/4V<br>470 5% 1/4V<br>33K 5% 1/4V<br>33K 5% 1/4V    | 1               |  | -404-584-11   | NSFORMER><br>COIL<br>*****                      | ******                                       | *****                | :***                      | ******                               |
| R294 1-249-405-11<br>R295 1-249-405-11<br>R296 1-249-405-11<br>R297 1-249-405-11<br>R299 1-249-429-11 | CARBON<br>CARBON<br>CARBON           | 100 5% 1/44<br>100 5% 1/44<br>100 5% 1/44<br>100 5% 1/44<br>10K 5% 1/44     |                 | *4   | -1245-456-A<br>-341-751-01<br>-341-752-01                               | FE BOARD, CON                                   | MPLETE<br>*****                              |                      |                           |                                      |
| R401 1-249-419-11<br>R403 1-247-881-00<br>R405 1-215-429-00<br>R406 1-249-429-11<br>R407 1-249-422-11 | CARBON<br>CARBON<br>METAL<br>CARBON  | 1.5K 5% 1/4V<br>120K 5% 1/4V<br>2.2K 1% 1/6V<br>10K 5% 1/4V<br>2.7K 5% 1/4V |                 | 4<br>C602 <b>A</b> . 1                           | -363-414-00<br><cap<br>-161-830-51</cap<br>                             | SPACER, MICA ACITOR> CERAMIC                    | 0.0047M                                      |                      |                           | 500 V                                |
| R408 1-249-414-11<br>R409 1-249-421-11<br>R410 1-249-419-11<br>R411 1-249-419-11<br>R412 1-249-423-11 | CARBON<br>CARBON<br>CARBON<br>CARBON | 560 5% 1/41<br>2.2K 5% 1/41<br>1.5K 5% 1/41<br>1.5K 5% 1/41<br>3.3K 5% 1/41 |                 | C604 <u>本</u> . 1<br>C605 <u>本</u> . 1<br>C606 1 | -161-830-51<br>-161-830-51<br>-161-830-51<br>-125-222-41<br>-136-360-51 | CERAMIC<br>CERAMIC<br>CERAMIC<br>ELECT (BLOCK)  | 0.0047M<br>0.0047M<br>0.0047M<br>330MF       | IF<br>IF<br>2        | 0%<br>0%                  | 500V<br>500V<br>500V<br>400V<br>250V |
| R413 1-249-434-11<br>R414 1-247-895-00<br>R415 1-249-412-11<br>R416 1-249-415-11                      | CARBON<br>CARBON<br>CARBON<br>CARBON | 27K 5% 1/4I<br>470K 5% 1/4I<br>390 5% 1/4I<br>680 5% 1/4I                   |                 | C608 <u>本</u> . 1<br>C611 1<br>C612 1            | -136-360-51<br>-102-973-00<br>-161-754-00                               | FILM<br>CERAMIC<br>CERAMIC                      | 0.22MF<br>100PF<br>0.001MF                   | 2<br>5<br>1          | 0%<br>%<br>0%             | 250V<br>50V<br>3KV                   |
| R418 1-249-425-11<br>R418 1-249-425-11<br>R419 1-249-433-11<br>R420 1-215-432-00<br>R421 1-249-419-11 | CARBON CARBON CARBON METAL           | 220 5% 1/4' 4.7K 5% 1/4' 22K 5% 1/4' 3K 1% 1/6' 1.5K 5% 1/4'                | y<br>N          | C614 1<br>C615 1<br>C616 1                       | -123-946-00<br>-136-067-00<br>-129-765-00<br>-124-798-11<br>-124-902-00 | FILM<br>ELECT                                   | 4.7MF<br>0.0036M<br>0.047MF<br>1MF<br>0.47MF | IF 3<br>1<br>2       | 0%<br>2<br>0%<br>0%<br>0% | 250V<br>2KV<br>200V<br>160V<br>50V   |

The components identified by shading and mark  $\hat{\Delta}$  are critical for safety.

Replace only with part number specified.

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| REF.NO. PART NO.  | DESCRIPTION   |                                | REMARK                            | REF.NO.                              | PART NO.   | DESCRIPTION   |                                       |                             |                                      | REMARK |
|---|---|--------------------------------|-----------------------------------|--------------------------------------|--|---|---------------------------------------|-----------------------------|--------------------------------------|--------|
| C618 1-162-318-11<br>C619 1-123-875-11<br>C620 1-124-446-11<br>C621 1-130-475-00<br>C622 1-104-067-00   | ELECT 10MF<br>ELECT 47MF<br>FILM 0.0022MF   | 10%<br>20%<br>20%<br>5%<br>5%  | 500V<br>50V<br>10V<br>50V<br>50V  | 10651                                | 8-759-927-49<br><001   |   |                                       |                             |                                      |        |
| C623 1-126-233-11<br>C624 1-162-318-11<br>C625 1-124-463-00<br>C626 1-161-973-00  | ELECT 22MF  | 20%<br>10%<br>20%<br>10%<br>3% | 25V<br>500V<br>50V<br>400V<br>2KV | L622                                 | 1-407-365-00<br>1-408-226-00<br>1-410-397-21<br>1-410-396-31<br>1-410-396-31 | 1 NDUCTOR   | 82UH<br>INDUCTO<br>INDUCTO<br>INDUCTO | IR<br>IR<br>IR              |                                      |        |
| (631 1-162-116-00<br>(633 1-162-131-11<br>(651 1-125-494-11<br>(654 1-102-030-00  | CERAMIC 680PF CERAMIC 220PF ELECT(BLOCK) 560MF CERAMIC 330PF                          | 10%<br>10%<br>20%<br>10%       | 2KV<br>2KV<br>160V<br>500V        | L626 <u>Å</u><br>L627 Å              | 1-459-946-11   | COIL, NOISE F<br>COIL, NOISE F<br>LINK>                   | FILTER                                |                             |                                      |        |
| C656 1-102-030-00<br>C657 1-161-973-00<br>C658 1-124-499-11<br>C659 1-108-614-11  |   | 10%<br>10%<br>20%<br>10%       | 500V<br>400V<br>50V<br>100V       | PS602A                               |  | LINK, IC 0.8/<br>NSISTOR>                                 | N/125V                                |                             |                                      |        |
| C660 A. 1-162-578-51<br>C661 A. 1-162-578-51  | CERAMIC 0.0047MF<br>CERAMIC 0.0047MF  | 20%<br>20%<br>20%              | 400V<br>400V<br>16V               | Q612                                 | 8-729-119-80<br>8-729-119-80<br>8-729-802-14                                 | TRANSISTOR 2S<br>TRANSISTOR 2S<br>TRANSISTOR 2S           | SC2688-L                              | .K<br>.K                    |                                      |        |
| C671 1-126-103-11<br>C674 1-126-105-11<br>C675 1-162-116-00<br>C676 1-102-973-00  | ELECT 1000MF<br>CERAMIC 680PF   | 20%<br>10%<br>5%               | 35V<br>2KV<br>50V                 | Q614<br>Q615                         | 8-729-119-80<br>8-729-119-78   | TRANSISTOR 25 TRANSISTOR 25                               | 5C2688-1<br>5C2785-1                  | łFE                         |                                      |        |
| <010  | DE>   |                                |                                   | Q617                                 |  | TRANSISTOR 25   | 5C2183=1                              | 1 F.C.                      |                                      |        |
| D601 A. 8-719-503-06<br>D605 8-719-911-19<br>D606 8-719-911-19<br>D607 8-719-110-90<br>D608 8-719-110-90  | DIODE 188119  |                                |                                   | R602 A.<br>R603 A.<br>R604 A.        |  | ISTOR> WIREWOUND METAL CARBON CARBON SOLID                | 2.7M<br>4.7K<br>4.7K                  | 5%<br>1%<br>5%<br>5%        | 20W<br>1/2W<br>1/4W<br>1/4W<br>1/2W  | F<br>F |
| D611 8-719-118-34<br>D612 8-719-925-06<br>D613 8-719-200-02<br>D614 8-719-925-06<br>D615 8-719-109-97   | DIODE RD110E-B<br>DIODE ERC25-06S<br>DIODE 10E2<br>DIODE ERC25-06S<br>DIODE RD6.8E-B2 |                                |                                   | R606<br>R610<br>R611<br>R612<br>R613 | 1-249-423-11<br>1-249-405-11<br>1-216-444-11<br>1-216-444-11<br>1-249-496-11 | CARBON<br>CARBON<br>METAL OXIDE<br>METAL OXIDE<br>CARBON  | 3.3K<br>100<br>82K<br>82K<br>100K     | 5%<br>5%<br>5%<br>5%        | 1/4W<br>1/4W<br>1W<br>1W<br>1W       | F<br>F |
| 0616         8-719-925-06           0617         8-719-911-19           0619         8-719-911-19           0620         8-719-925-06           0622         8-719-100-74 | DIODE 1SS119<br>DIODE 1SS119<br>DIODE ERC25-06S                                       |                                |                                   | R614<br>R615<br>R616<br>R617<br>R618 | 1-215-923-00<br>1-247-887-00<br>1-247-711-11<br>1-247-725-11<br>1-249-396-11 | METAL OXIDE<br>CARBON<br>CARBON<br>CARBON<br>CARBON       | 10K<br>220K<br>680<br>10K             | 5%<br>5%<br>5%<br>5%        | 3W<br>1/4W<br>1/4W<br>1/4W<br>1/4W   | F      |
| D654 8-719-911-19   | DIODE RU3AM<br>DIODE 10E2<br>DIODE RH-1A<br>DIODE 1SS119<br>DIODE RD15ES-B2           |                                |                                   | į                                    | 1-247-710-11<br>1-217-192-21<br>1-249-423-11<br>1-249-434-11<br>1-215-457-00 |   | 560<br>0.22<br>3.3K<br>27K<br>33K     | 5%<br>10%<br>5%<br>5%<br>1% | 1/4W<br>2W<br>1/4W<br>1/4W<br>1/6W   | F<br>F |
| <00   | NNECTUR>  |                                |                                   | R624<br>R625                         | 1-249-429-11<br>1-247-726-11   | CARBON<br>CARBON  | 10K<br>33K                            | 5%<br>5%                    | 1/4W<br>1/4W                         |        |
| F3 *1-508-765-00<br>F5 *1-508-768-00  | PIN, CONNECTOR 7P<br>PIN, CONNECTOR (5MM PIT<br>PIN, CONNECTOR (5MM PIT               | CH) 3P                         |                                   | R626<br>R627<br>R628                 | 1-249-411-11<br>1-249-438-11<br>1-247-887-00                                 | CARBON<br>CARBON<br>CARBON                                | 330<br>56K<br>220K                    | 5%<br>5%<br>5%<br>5%        | 1/4W<br>1/4W<br>1/4W                 |        |
| F6 *1-506-371-00<br>F7 *1-568-106-11  | PIN, CONNECTOR 2P<br>PIN, CONNECTOR 7P<br>SE>   |                                |                                   | R629<br>R630<br>R631<br>R632<br>R633 | 1-249-428-11<br>1-249-436-11<br>1-249-424-11<br>1-247-753-11<br>1-249-441-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON            | 8.2K<br>39K<br>3.9K<br>1.2K<br>100K   | 5%<br>5%<br>5%<br>5%        | 1/4W<br>1/4W<br>1/4W<br>1/2W<br>1/4W | F      |
| F601 A. 1-532-350-11<br>*1-533-189-11   | FUSE, TIME-LAG 4A/250V<br>HOLDER, FUSE; F601  |                                |                                   | R634<br>R635<br>R636<br>R637<br>R640 | 1-249-417-11<br>1-205-928-11<br>1-205-927-11<br>1-216-465-11<br>1-249-438-11 | CARBON<br>WIREWOUND<br>WIREWOUND<br>METAL OXIDE<br>CARBON | 1K<br>180<br>2.2K<br>27K<br>56K       | 5%<br>10%<br>10%<br>5%      | 1/4W<br>10W<br>10W<br>2W<br>1/4W     | F      |
| 1C601 8-759-100-75<br>1C602 8-719-939-00  | IC UPC1394C<br>IC PC111S  |                                |                                   | R644                                 | 1-247-885-00   |   | 180K                                  |                             | 1/4W                                 |        |
|   |   |                                |                                   |                                      |  |   |                                       |                             |                                      |        |

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

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|   | CONTRACTOR OF THE      | Charles Carrier and American Control  | Secretary address the court                  |                                      |                            |                                    |                   |                                      |   |   |                                     |                            | <u> </u>                             |                                 |  |
|---|------------------------|---|--|--------------------------------------|----------------------------|------------------------------------|-------------------|--------------------------------------|---|---|-------------------------------------|----------------------------|--------------------------------------|---------------------------------|--|
| F | EF.NO.                 | PART NO.  | DESCRIPTION                                  |                                      |                            |                                    | REMARK            | REF.NO.                              | PART NO.  | DESCRIPTION                               | N<br>-                              |                            |                                      | REMARK                          |  |
|   | R651<br>R652<br>R653   | 1-247-887-00<br>1-247-881-00<br>1-215-924-00<br>1-249-417-11<br>1-247-881-00  | CARBON<br>METAL OXIDE<br>CARBON              | 220K<br>120K<br>15K<br>1K<br>120K    | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>3W<br>1/4W<br>1/4W | F                 | C122<br>C123<br>C124<br>C125<br>C137 | 1-124-589-11<br>1-124-589-11<br>1-124-589-11<br>1-124-589-11<br>1-126-160-11        | ELECT<br>ELECT<br>ELECT<br>ELECT<br>ELECT | 47MF<br>47MF<br>47MF<br>47MF<br>1MF |                            | 20%<br>20%<br>20%<br>20%<br>20%      | 16V<br>16V<br>16V<br>16V<br>50V |  |
|   | R656<br>R657<br>R658 ▲ | 1-249-469-11<br>1-247-895-00<br>1-247-883-00<br>1-247-289-11<br>1-249-443-11  | CARBON<br>CARBON<br>CARBON                   | 100K<br>470K<br>150K<br>8.2M<br>0.47 | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1W<br>1/4W | F                 | C138<br>C139<br>C140<br>C141<br>C153 | 1-126-160-11<br>1-124-589-11<br>1-124-589-11<br>1-124-589-11<br>1-124-589-11        | ELECT<br>ELECT<br>ELECT<br>ELECT          | 1MF<br>47MF<br>47MF<br>47MF<br>47MF |                            | 20%<br>20%<br>20%<br>20%<br>20%      | 50V<br>16V<br>16V<br>16V<br>16V |  |
|   | R669<br>R671<br>R682   | 1-249-420-11<br>1-249-443-11<br>1-249-410-11<br>1-215-923-00<br>1-249-427-11  | CARBON<br>CARBON<br>METAL OXIDE              | 1.8K<br>0.47<br>270<br>10K<br>6.8K   | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>3W<br>1/4W | F<br>F            | C161<br>C162<br>C163                 | 1-124-589-11<br>1-161-021-11<br>1-161-021-11  |   | 47MF<br>0.047MF<br>0.047MF          |                            | 20%<br>10%<br>10%                    | 16V<br>25V<br>25V               |  |
|   | R691<br>R692           | 1-216-489-11<br>1-202-719-00  | SOLID  | 1 M                                  | 5%<br>10%                  | 3W<br>1/2W                         | F                 | 10102                                | 8-759-800-81<br>8-759-710-31<br>8-759-800-81  | IC LA7016<br>IC NJM2243S                  |                                     |                            | ı                                    |                                 |  |
|   |                        |   | IABLE RESISTOR                               |                                      | .0                         |                                    |                   | 1                                    | ∠TD.A   | NC1CTOD>                                  |                                     |                            |                                      |                                 |  |
|   | RV601                  | 1-230-504-11  | RES, ADJ, CAR                                | RBUN 22                              | :0                         |                                    |                   | 0106                                 | 8-729-119-78  | NSISTOR>                                  | 2002705_0                           | CC                         |                                      |                                 |  |
|   |                        | <tra< td=""><td>NSFORMER&gt;</td><td></td><td></td><td></td><td></td><td>Q106</td><td>8-729-119-78</td><td>TUNICICUM</td><td>Z3(Z10)-11</td><td>ir E</td><td></td><td></td><td></td></tra<>   | NSFORMER>                                    |                                      |                            |                                    |                   | Q106                                 | 8-729-119-78  | TUNICICUM                                 | Z3(Z10)-11                          | ir E                       |                                      |                                 |  |
|   | T602                   | 1-437-079-00  | TRANSFORMER,                                 | HORIZO                               | ONTAL D                    | RIVE                               |                   | 1                                    | <res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td></res<> | SISTOR>                                   |                                     |                            |                                      |                                 |  |
|   | Trina A                | , 1-448-895-11<br>, 1-421-776-11<br>, 1-421-758-11  | LFT<br>TRANSFORMER,                          | LINE F                               | FILTER                     | (LFT)                              |                   | R101<br>R103<br>R104<br>R105         | 1-249-429-11<br>1-249-405-11<br>1-249-433-11<br>1-249-433-11                        | CARBON<br>CARBON<br>CARBON                | 10K<br>100<br>22K<br>22K<br>10K     | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |                                 |  |
|   |                        |   | RMISTOR>                                     | 211                                  |                            |                                    |                   | R106                                 | 1-249-429-11  |   | 1 K                                 |                            | 1/4W                                 |                                 |  |
|   | THP601                 | 1-800-200-00<br><u>A</u> 1-808-059-21   | THERMISTOR,                                  | POSITI                               |                            |                                    |                   | R107<br>R108<br>R110                 | 1-249-417-11<br>1-249-429-11<br>1-249-405-11  | CARBON<br>CARBON                          | 10K<br>100                          | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W                         |                                 |  |
|   |                        | **********  |  |                                      |                            |                                    |                   | R111<br>R112                         | 1-249-433-11<br>1-249-433-11  | CARBON<br>CARBON                          | 22K<br>22K                          | 5%                         | 1/4W<br>1/4W                         |                                 |  |
|   |                        | *A-1270-245-A   | QA BOARD, CU                                 | MPLETE                               | (PVM-)                     | 1444UM                             | UNLY)             | R113                                 | 1-247-104-00  |   | 75<br>75                            | 5%<br>5%                   | 1/4W                                 |                                 |  |
|   |                        | 1-537-191-11<br>1-537-201-11<br>*4-379-104-01   | TERMINAL BOA<br>TERMINAL BOA<br>INSULATUR, S | RD, IN                               | PUT OUT                    | TPUT<br>TPUT                       |                   | R115<br>R117<br>R118<br>R119         | 1-247-104-00<br>1-249-405-11<br>1-249-433-11<br>1-249-433-11                        | CARBON<br>CARBON                          | 75<br>100<br>22K<br>22K             | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W         |                                 |  |
|   |                        | <caf< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td>R120<br/>R121</td><td>1-249-429-11<br/>1-249-405-11</td><td>CARBON</td><td>10K<br/>100</td><td>5%<br/>5%</td><td>1/4W<br/>1/4W</td><td></td><td></td></caf<> | ACITOR>                                      |                                      |                            |                                    |                   | R120<br>R121                         | 1-249-429-11<br>1-249-405-11  | CARBON                                    | 10K<br>100                          | 5%<br>5%                   | 1/4W<br>1/4W                         |                                 |  |
|   | C101<br>C102           | 1-124-589-11<br>1-126-160-11  | ELECT<br>ELECT                               | 47MF<br>1MF                          |                            | 20%<br>20%                         | 16V<br>50V        | R122<br>R123<br>R124                 | 1-247-104-00<br>1-249-405-11<br>1-249-421-11  | CARBON<br>CARBON<br>CARBON                | 75<br>100<br>2.2K                   | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |                                 |  |
|   | C103<br>E105<br>C106   | 1-126-160-11<br>1-126-160-11<br>1-126-160-11  | ELECT<br>ELECT<br>ELECT                      | 1MF<br>1MF<br>1MF                    |                            | 20%<br>20%<br>20%                  | 50V<br>50V<br>50V | R125<br>R126<br>R127                 | 1-249-429-11<br>1-247-104-00<br>1-247-104-00  | CARBON<br>CARBON<br>CARBON                | 10K<br>75<br>75                     | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W                 |                                 |  |
|   | C107<br>C108<br>C109   | 1-126-160-11<br>1-124-589-11  | ELECT<br>ELECT<br>ELECT                      | 1MF<br>47MF<br>1MF                   |                            | 20%<br>20%<br>20%                  | 50V<br>16V<br>50V | R128<br>R129                         | 1-247-104-00<br>1-247-104-00  | CARBON<br>CARBON                          | 75<br>75                            | 5%<br>5%                   | 1/4W<br>1/4W                         |                                 |  |
|   | C110<br>C111           | 1-126-160-11<br>1-126-160-11<br>1-126-160-11  | ELECT<br>ELECT                               | 1 MF<br>1 MF                         |                            | 20%<br>20%<br>20%                  | 50V<br>50V        | R130<br>R131<br>R132                 | 1-247-104-00<br>1-247-104-00<br>1-249-417-11  | CARBON<br>CARBON<br>CARBON                | 75<br>75<br>1 K                     | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |                                 |  |
|   | C112<br>C113           | 1-124-589-11<br>1-124-589-11  | ELECT<br>ELECT                               | 47MF<br>47MF                         |                            | 20%<br>20%                         | 16V<br>16V        | R168<br>R177                         | 1-249-429-11<br>1-249-405-11  | CARBON                                    | 10K<br>100                          | 5%<br>5%                   | 1/4W<br>1/4W                         |                                 |  |
|   | C114<br>C115<br>C116   | 1-124-589-11<br>1-124-589-11<br>1-161-021-11  | ELECT<br>ELECT<br>CERAMIC                    | 47MF<br>47MF<br>0.047                | MF                         | 20%<br>20%<br>10%                  | 16V<br>16V<br>25V | R178<br>R179<br>R184                 | 1-249-433-11<br>1-249-433-11<br>1-249-420-11  |   | 22K<br>22K<br>1.8K                  | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |                                 |  |
|   | C117<br>C118           | 1-124-589-11<br>1-124-589-11  | ELECT<br>ELECT                               | 47MF                                 |                            | 20%<br>20%                         | 16V<br>16V        |                                      | . 2114  | BIABLE DECIC                              | TOD>                                |                            |                                      |                                 |  |
|   | C119<br>C120           | 1-126-160-11<br>1-126-160-11  | ELECT<br>ELECT                               | 1MF<br>1MF                           |                            | 20%<br>20%                         | 50V<br>50V        | DV101                                | 1-228-848-00  | RIABLE RESIS                              |                                     | v                          |                                      |                                 |  |
|   | C121                   | 1-124-589-11  | ELECT  | 47MF                                 |                            | 20%                                | 16V               | TOLVA                                | 1-440-040-00  | nes, tan,                                 | CURDON 10                           | 11                         |                                      |                                 |  |

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## PVM-1440QM/1442QM/1444QM

| ÌΑ               |                                      | Qв  |  |   |  |  |                                      |  |  |  |                            |                                      |        |
|------------------|--------------------------------------|---|--|---|--|--|--------------------------------------|--|--|--|----------------------------|--------------------------------------|--------|
| RE               | F.NO.                                | PART NO.  | DESCRIPTION  |   |  | REMARK   | REF.NO.                              | PART NO.   | DESCRIPTION                                    | l<br>-                                 |                            |                                      | REMARK |
|                  |                                      | <swi< td=""><td>ıcn&gt; .</td><td></td><td></td><td></td><td>Q116</td><td>8-729-119-78</td><td>TRANSISTOR 2</td><td>SC2785-</td><td>HFE</td><td></td><td></td></swi<> | ıcn> .   |   |  |  | Q116                                 | 8-729-119-78   | TRANSISTOR 2                                   | SC2785-                                | HFE                        |                                      |        |
|                  | 101<br>102                           | 1-570-145-11<br>1-570-145-11  | SWITCH, SUIDE  |   |  |  | Q120<br>Q121                         | 8-729-900-65<br>8-729-900-65   |  |  |                            |                                      |        |
| *                |                                      | ********  |  |   |  |  | 1<br>                                | <con:< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td></con:<> | NECTOR>  |  |                            |                                      |        |
|                  | ;                                    | *A-1270-246-A   | QB BOARD, CON  | APLETE (PVM-<br>******                  | 1444QM                                 | ONLY)  | QB6                                  | *1-560-290-00  | PLUG, CONNEC                                   | CTOR (2.                               | 5MM PI                     | TCH)                                 |        |
|                  |                                      | <cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>}<br/> </td><td></td><td>ISTOR&gt;</td><td></td><td>_•.</td><td></td><td></td></cap<>                   | ACITOR>  |   |  |  | }<br>                                |  | ISTOR>   |  | _•.                        |                                      |        |
| 0<br>0<br>0      | 126<br>127<br>128<br>129<br>130      | 1-124-477-11  | ELECT<br>ELECT<br>ELECT<br>CERAMIC<br>ELECT                      | 47MF<br>47MF<br>47MF<br>0.047MF<br>47MF | 20%<br>20%<br>20%<br>10%<br>20%        | 25V<br>25V<br>25V<br>25V<br>25V                          | R133<br>R134<br>R135<br>R137<br>R138 | 1-249-433-11<br>1-249-433-11<br>1-249-433-11<br>1-249-433-11<br>1-249-433-11 | CARBON<br>CARBON<br>CARBON                     | 100<br>22K<br>22K<br>22K<br>22K<br>22K | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| 0<br>0<br>0<br>0 | 131<br>132<br>133<br>134<br>135      | 1-124-477-11<br>1-124-477-11<br>1-124-477-11<br>1-124-477-11  |  | 47MF<br>47MF<br>47MF<br>47MF<br>47MF    | 20%<br>20%<br>20%<br>20%<br>20%<br>20% | 25V<br>25V<br>25V<br>25V<br>25V<br>25V                   | R139<br>R140<br>R141<br>R142<br>R143 | 1-249-405-11<br>1-249-433-11<br>1-249-433-11<br>1-249-433-11<br>1-249-433-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 100<br>22K<br>22K<br>22K<br>22K<br>22K | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| 0<br>0<br>0      | 136<br>142<br>143<br>144<br>145      | 1-124-477-11<br>1-124-631-11  | ELECT<br>ELECT<br>ELECT<br>ELECT<br>ELECT                        | 47MF<br>47MF<br>47MF<br>47MF<br>47MF    | 20%<br>20%<br>20%<br>20%<br>20%<br>20% | 25V<br>16V<br>25V<br>25V<br>25V                          | R144<br>R145<br>R146<br>R147<br>R149 | 1-249-412-11<br>1-249-405-11<br>1-249-436-11<br>1-249-435-11<br>1-249-433-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 390<br>100<br>39K<br>33K<br>22K        | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| 0                | 1146<br>1147<br>1148<br>1149         | 1-124-477-11<br>1-101-004-00  | ELECT<br>CERAMIC<br>CERAMIC<br>ELECT<br>ELECT                    | 47MF<br>0.01MF<br>0.01MF<br>100MF       | 20%<br>20%<br>20%                      | 25V<br>50V<br>50V<br>25V<br>50V                          | R150<br>R151<br>R152<br>R153<br>R154 | 1-249-433-11<br>1-249-429-11<br>1-249-429-11<br>1-249-417-11<br>1-249-422-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 22K<br>10K<br>10K<br>1K<br>2.7K        | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| 0                | 151<br>152<br>154<br>169             | 1-161-021-11<br>1-124-925-11<br>1-101-004-00<br>1-124-477-11  | CERAMIC<br>ELECT<br>CERAMIC                                      | 0.047MF<br>2.2MF<br>0.01MF<br>47MF      | 10%<br>20%<br>20%                      | 25 <b>V</b><br>50 <b>V</b><br>50 <b>V</b><br>25 <b>V</b> | R155<br>R161<br>R162<br>R163<br>R164 | 1-215-383-00<br>1-215-397-00<br>1-215-397-00<br>1-249-422-11<br>1-215-431-00 |  | 27<br>100<br>100<br>2.7K<br>2.7K       | 1%<br>1%<br>1%<br>5%<br>1% | 1/6W<br>1/6W<br>1/6W<br>1/4W<br>1/6W |        |
|                  |                                      | < DIO   | DE>  |   |  |  | R165<br>R166                         | 1-249-422-11<br>1-215-431-00   | CARBON<br>METAL                                | 2.7K<br>2.7K                           | 5%<br>1%                   | 1/4W<br>1/6W                         |        |
| ľ                | )101<br>)102<br>)105                 | 8-719-911-19<br>8-719-911-19<br>8-719-911-19  | DIODE 188119   |   |  |  | R167<br>R169<br>R170                 | 1-249-422-11<br>1-249-429-11<br>1-249-437-11                                 | CARBON<br>CARBON<br>CARBON                     | 2.7K<br>10K<br>47K                     | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |        |
| ĺ                | )106<br>)111                         | 8-719-911-19<br>8-719-911-19  | DIODE 1SS119<br>DIODE 1SS119                                     |   |  |  | R171<br>R172<br>R173                 | 1-249-437-11<br>1-249-417-11<br>1-249-405-11                                 | CARBON<br>CARBON                               | 47K<br>1K<br>100                       | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |        |
| [                | 0112                                 | 8-719-911-19  | DIODE 188119   |   |  |  | R175<br>R176                         | 1-249-433-11<br>1-249-433-11   | CARBON<br>CARBON                               | 22K<br>22K                             | 5%<br>5%                   | 1/4W<br>1/4W                         |        |
| ]                | EC104<br>EC105<br>EC106<br>EC107     | <1C><br>8-759-800-81<br>8-759-800-81<br>8-759-710-31<br>8-759-800-81  | JC LA7016<br>IC LA7016<br>JC NJM2243S<br>IC LA7016               |   |  |  | R180<br>R181<br>R182<br>R183<br>R186 | 1-249-417-11<br>1-249-417-11<br>1-249-409-11<br>1-249-409-11<br>1-249-435-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 1 K<br>1 K<br>220<br>220<br>33 K       | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
|                  | 10108                                | 8-759-240-11  | IC TC4011BP  |   |  |  | R187<br>R188<br>R189                 | 1-249-417-11<br>1-249-435-11<br>1-249-433-11                                 | CARBON<br>CARBON<br>CARBON                     | 1 K<br>33 K<br>22 K                    | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |        |
|                  |                                      |   | NSISTOR>   |   |  |  | R190<br>R191                         | 1-249-433-11<br>1-249-420-11   | CARBON<br>CARBON                               | 22K<br>1.8K                            | 5%<br>5%                   | 1/4W<br>1/4W                         |        |
| (<br>(<br>(      | Q101<br>Q103<br>Q104<br>Q110<br>Q111 | 8-729-900-36<br>8-729-119-78<br>8-729-119-78<br>8-729-119-76<br>8-729-119-76  | TRANSISTOR D TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SC2785-HFE<br>SC2785-HFE<br>SA1175-HFE  |  |  | R192<br>R193<br>R194<br>R197<br>R198 | 1-249-420-11<br>1-249-420-11<br>1-215-419-00<br>1-249-417-11<br>1-249-429-11 | CARBON<br>CARBON<br>METAL<br>CARBON<br>CARBON  | 1.8K<br>1.8K<br>820<br>1K<br>10K       | 5%<br>5%<br>1%<br>5%<br>5% | 1/4W<br>1/4W<br>1/6W<br>1/4W<br>1/4W |        |
| (                | Q112<br>Q113<br>Q114<br>Q115         | 8-729-119-76<br>8-729-119-78<br>8-729-119-78<br>8-729-119-78  | TRANSISTOR 2<br>TRANSISTOR 2<br>TRANSISTOR 2<br>TRANSISTOR 2     | SC2785-HFE<br>SC2785-HFE                |  |  | R199<br>R201<br>R202                 | 1-249-417-11<br>1-249-405-11<br>1-249-405-11                                 | CARBON<br>CARBON<br>CARBON                     | 1 K<br>100<br>100                      | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |        |

## PVM-1440QM/1442QM/1444QM

|                                      |   |   |   |                                 |                                 |                                      |   |  | Qв  |                            | Qc                                   |                                 | QD       |
|--------------------------------------|---|---|---|---------------------------------|---------------------------------|--------------------------------------|---|--|---|----------------------------|--------------------------------------|---------------------------------|----------|
| REF.NO.                              | PART NO.  | DESCRIPTION                                 |   |                                 | REMARK                          | REF.NO.                              | PART NO.  | DESCRIPTION                                    |   |                            |                                      | REMAR                           |          |
| R203<br>R204<br>R205<br>R206         | 1-249-425-11<br>1-249-441-11  | CARBON<br>CARBON<br>CARBON<br>CARBON        | 100 5%<br>4.7K 5%<br>100K 5%<br>22K 5%<br>100K 5% | 1/4W<br>1/4W<br>1/4W<br>1/4W    |                                 | R108<br>R109<br>R110                 | 1-247-104-00  | CARBON<br>CARBON<br>CARBON                     | 100<br>75<br>75                           | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |                                 |          |
| R207<br>R208<br>R209<br>R210         | 1-249-441-11<br>1-249-415-11<br>1-249-405-11  | CARBON<br>CARBON<br>CARBON<br>CARBON        | 680 5%<br>100 5%<br>100 5%                        | 1/4W<br>1/4W<br>1/4W<br>1/4W    |                                 | R111<br>R112<br>R113<br>R114<br>R115 | 1-249-405-11<br>1-249-429-11<br>1-247-104-00  | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 10K<br>100<br>10K<br>75<br>100            | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |                                 |          |
| R211<br>R212<br>R213<br>R214         | 1-249-417-11<br>1-249-420-11<br>1-249-426-11<br>1-215-436-00  | CARBON<br>CARBON<br>CARBON<br>METAL         | 1K 5%<br>1.8K 5%<br>5.6K 5%<br>4.3K 1%<br>4.3K 1% | 1/4W<br>1/4W<br>1/4W<br>1/6W    |                                 | R116<br>R117<br>R118<br>R119         | 1-247-703-11<br>1-247-703-11<br>1-249-417-11  | CARBON<br>CARBON<br>CARBON<br>CARBON           | 220<br>180<br>180<br>1K                   | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W         |                                 |          |
|                                      | 1-215-436-00<br>***********************************   | QC BOARD, COM                               | **************************************            |                                 |                                 | R123<br>R125                         | 1-249-405-11  | CARBON<br>METAL<br>CARBON<br>CARBON            | 1 K<br>68<br>1 K<br>100                   | 17<br>57<br>57<br>57       | 1/4W<br>1/6W<br>1/4W<br>1/4W         |                                 |          |
|                                      | 1-537-191-11<br>1-537-192-11<br>*4-379-104-01   | TERMINAL BOAR                               | ******<br>RD, INPUT/OU<br>RD, INPUT/OU            | TPU <b>T</b>                    |                                 | R126<br>R127<br>R128<br>R129         | 1-249-429-11<br>1-247-104-00  | CARBON<br>CARBON<br>CARBON<br>CARBON           | 22K<br>22K<br>10K<br>75                   | 5%<br>5%                   | 1/4W<br>1/4W<br>1/4W<br>1/4W         |                                 |          |
|                                      | <cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>R130<br/>R131<br/>R132</td><td>1-247-104-00<br/>1-247-104-00<br/>1-249-417-11</td><td>CARBON<br/>CARBON<br/>CARBON</td><td>75<br/>75<br/>1K</td><td>5%<br/>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td><td></td></cap<> | ACITOR>                                     |   |                                 |                                 | R130<br>R131<br>R132                 | 1-247-104-00<br>1-247-104-00<br>1-249-417-11  | CARBON<br>CARBON<br>CARBON                     | 75<br>75<br>1K                            | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |                                 |          |
| C101<br>C102<br>C103<br>C104<br>C105 | 1-124-589-11<br>1-126-160-11<br>1-126-160-11<br>1-161-021-11<br>1-126-160-11  | ELECT<br>ELECT<br>ELECT<br>CERAMIC<br>ELECT | 47MF<br>1MF<br>1MF<br>0.047MF<br>1MF              | 20%<br>20%<br>20%<br>10%<br>20% | 16V<br>50V<br>50V<br>25V<br>50V | R133<br>R134<br>R220<br>R221<br>R222 | 1-215-429-00<br>1-215-429-00  | CARBON<br>CARBON<br>METAL<br>METAL<br>METAL    | 75<br>1K<br>2.2K<br>2.2K<br>2.2K          | 5%<br>5%<br>1%<br>1%       | 1/4W<br>1/4W<br>1/6W<br>1/6W<br>1/6W |                                 |          |
| C106<br>C107<br>C108<br>C109<br>C110 | 1-126-160-11<br>1-124-589-11<br>1-124-589-11<br>1-124-589-11<br>1-124-589-11  | ELECT<br>ELECT<br>ELECT<br>ELECT<br>ELECT   | 1MF<br>47MF<br>47MF<br>47MF<br>47MF               | 20%<br>20%<br>20%<br>20%<br>20% | 50V<br>16V<br>16V<br>16V<br>16V | R254<br>R298                         | 1-249-431-11  | CARBON<br>CARBON<br>IABLE RESIST               | 1.8K<br>15K                               | 5%<br>5%                   | 1/4W<br>1/4W                         |                                 |          |
| C111<br>C112<br>C113<br>C114         | 1-124-589-11<br>1-124-589-11<br>1-124-589-11<br>1-126-160-11  | ELECT<br>ELECT<br>ELECT<br>ELECT            | 47MF<br>47MF<br>47MF<br>1MF                       | 20%<br>20%<br>20%<br>20%        | 16V<br>16V<br>16V<br>50V        | RV101<br>RV102                       | 1-228-848-00<br>1-228-848-00  | RES, VAR, C                                    | ARBON 10                                  | K<br>K                     |                                      |                                 |          |
| C115<br>C116                         | 1-126-160-11<br>1-124-589-11  |   | 1MF<br>47MF                                       | 20%<br>20%                      | 50V<br>16V                      | S101                                 | <swi<br>1-570-145-11</swi<br>   |  | DE  |                            |                                      |                                 |          |
| C117<br>C118<br>C119                 | 1-126-157-11<br>1-126-157-11<br>1-126-157-11  | ELECT<br>ELECT<br>ELECT                     | 10MF<br>10MF<br>10MF                              | 20%<br>20%<br>20%               | 16V<br>16V<br>16V               | į                                    | ******  |  |   |                            |                                      |                                 | ***      |
| C120<br>C122                         | 1-124-589-11<br>1-124-589-11  | ELECT<br>ELECT                              | 47M <u>F</u><br>47MF                              | 20%<br>20%                      | 16V<br>16V                      |                                      | *A-1270-248-A   | QD BOARD, C                                    |   | (PVM-                      | -1442QM O                            | NLY)                            |          |
| C123                                 | 1-124-589-11  | ELECT                                       | 47MF  | 20%                             | 16 <b>V</b>                     |                                      | <cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td></td></cap<> | ACITOR>  |   |                            |                                      |                                 |          |
| 10101                                | <1C><br>8-759-800-81  | IC LA7016                                   |   |                                 |                                 | C121<br>C124<br>C125<br>C126<br>C127 | 1-126-094-11<br>1-101-004-00<br>1-124-477-11<br>1-124-589-11<br>1-101-004-00        | CERAMIC<br>ELECT                               | 4.7MF<br>0.01MF<br>47MF<br>47MF<br>0.01MF |                            | 20%<br>20%                           | 25V<br>50V<br>16V<br>16V<br>50V |          |
| Q122                                 | 8-729-119-78  | ANSISTOR> TRANSISTOR 2                      | SC2785-HFE  |                                 |                                 | C128<br>C129<br>C130<br>C131         | 1-124-589-11<br>1-124-589-11<br>1-124-584-00<br>1-161-021-11                        | ELECT<br>ELECT<br>CERAMIC                      | 47MF<br>47MF<br>100MF<br>0.047M           | (F                         | 10%                                  | 16V<br>16V<br>10V<br>25V        |          |
| R101                                 | <res<br>1-249-429-11</res<br>   | SISTOR><br>CARBON                           | 10K 5%  | 1/4W                            |                                 | C132                                 | 1-102-963-00<br>1-126-157-11  | CERAMIC<br>ELECT                               | 33PF<br>10MF                              |                            |                                      | 50V<br>16V                      |          |
| R102<br>R103<br>R104<br>R105         | 1-249-405-11<br>1-249-429-11<br>1-249-405-11<br>1-247-104-00  | CARBON<br>CARBON<br>CARBON<br>CARBON        | 100 5%<br>10K 5%<br>100 5%<br>75 5%               | 1/4W<br>1/4W<br>1/4W<br>1/4W    |                                 | C134<br>C135<br>C136<br>C137         | 1-161-021-11<br>1-106-375-12<br>1-101-004-00<br>1-124-589-11                        | CERAMIC<br>MYLAR<br>CERAMIC                    | 0.047M<br>0.022M<br>0.01MF<br>47MF        | (F                         | 10%<br>10%                           | 25V<br>100V<br>50V<br>16V       | a remain |
| R106<br>R10 <b>7</b>                 | 1-249-405-11<br>1-247-104-00  | CARBON<br>CARBON                            | 100 5%<br>75 5%                                   | 1/4W<br>1/4W                    |                                 | C138<br>C139                         | 1-124-589-11<br>1-126-160-11  |  | 47MF<br>1MF                               |                            | 20%<br>20%                           | 16V<br>50V                      |          |

QD

| REF.NO.                              | PART NO.   | DESCRIPTION  |  |                                 | REMARK                          | REF. NO.                             | PART NO.   | DESCRIPTION                          |                                     |                            |                                      | REMARK |
|--------------------------------------|--|--|--|---------------------------------|---------------------------------|--------------------------------------|--|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|--------|
| C140<br>C141<br>C142<br>C143<br>C144 | PART NO.  1-124-589-11 1-102-965-00 1-102-965-00 1-102-965-00 1-126-094-11   | ELECT<br>CERAMIC<br>CERAMIC<br>CERAMIC<br>ELECT              | 47MF<br>39PF<br>39PF<br>39PF<br>4.7MF          |                                 | 16V<br>50V<br>50V<br>50V<br>25V | R135                                 | 1-249-417-11<br>1-249-411-11<br>1-249-418-11<br>1-249-421-11<br>1-249-424-11 | CARBON<br>CARBON<br>CARBON<br>CARBON | 1K<br>330<br>1.2K<br>2.2K<br>3.9K   | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| C145<br>C146<br>C147<br>C148<br>C149 | 1-124-589-11<br>1-124-589-11<br>1-126-157-11   | CERAMIC<br>ELECT<br>ELECT<br>ELECT<br>FILM                   | 0.047MF<br>47MF<br>47MF<br>10MF<br>0.0022MF    | 10%<br>20%<br>20%<br>20%<br>10% | 25V<br>16V<br>16V<br>16V<br>50V | R140<br>R141<br>R142<br>R143<br>R144 | 1-249-417-11<br>1-249-425-11<br>1-249-435-11<br>1-249-435-11<br>1-249-417-11 | CARBON<br>CARBON<br>CARBON           | 1K<br>4.7K<br>33K<br>33K<br>1K      | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| C150<br>C151<br>C172<br>C173<br>C174 | 1-130-483-00<br>1-130-471-00<br>1-101-005-00<br>1-136-169-00<br>1-102-965-00   | MYLAR<br>FILM<br>CERAMIC<br>FILM<br>CERAMIC                  | 0.01MF<br>0.001MF<br>0.022MF<br>0.22MF<br>39PF | 5%<br>10%<br>5%<br>5%           | 50V<br>50V<br>50V<br>50V<br>50V | R145<br>R146<br>R147<br>R148<br>R149 | 1-249-411-11<br>1-249-417-11<br>1-249-411-11<br>1-249-429-11<br>1-249-425-11 |                                      | 330<br>1K<br>330<br>10K<br>4.7K     | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
|                                      | <010   | DE>  |  |                                 |                                 | R150<br>R151<br>R152                 | 1-249-417-11<br>1-249-429-11<br>1-249-429-11                                 | CARBON<br>CARBON<br>CARBON           | 1 K<br>1 O K<br>1 O K               | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W                 |        |
| D102<br>D103<br>D104                 | 8-719-110-03<br>8-719-911-19   | DIODE RD7.5E<br>DIODE 1SS119                                 | S-B2   |                                 |                                 | R153<br>R154                         | 1-249-405-11<br>1-249-405-11   | CARBON<br>CARBON                     | 100<br>100                          | 5%<br>5%                   | 1/4W<br>1/4W                         |        |
| D105<br>D106                         | 8-719-911-19<br>8-719-109-85   | DIODE 155119<br>DIODE RD5. LE                                | S-B2   |                                 |                                 | R155<br>R156<br>R157                 | 1-249-433-11<br>1-249-433-11<br>1-249-430-11                                 | CARBON<br>CARBON<br>CARBON           | 22K<br>22K<br>12K                   | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W                 |        |
| 0107<br>0113<br>0116                 | 8-719-109-85<br>8-719-911-19<br>8-719-911-19   | DIODE RD5.1E<br>DIODE 1SS119<br>DIODE 1SS119                 | S-B2   |                                 |                                 | R158<br>R159                         | 1-249-417-11<br>1-247-706-11   |                                      | 1 K<br>330                          |                            | 1/4W<br>1/4W                         |        |
| 10102                                | <pre></pre>  | IC SN74LS09N   |  |                                 |                                 | R160<br>R161<br>R162<br>R163<br>R164 | 1-247-706-11<br>1-247-706-11<br>1-249-426-11<br>1-249-421-11<br>1-249-421-11 | CARBON                               | 330<br>330<br>5.6K<br>2.2K<br>2.2K  | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| 1C103<br>1C104<br>1C105<br>1C106     | 8-759-901-38<br>8-759-901-36<br>8-759-900-11<br>8-759-800-81   | 1C SN74LS138<br>1C SN74LS136<br>1C SN74LS11N<br>1C LA7016    | N<br>N   |                                 |                                 | R165<br>R166<br>R167<br>R168<br>R169 | 1-249-425-11<br>1-249-425-11<br>1-247-721-11<br>1-249-421-11<br>1-249-433-11 | CARBON                               | 4.7K<br>4.7K<br>4.7K<br>2.2K<br>22K | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| 10,107                               | 8-759-933-23   | TED MODILES  |  |                                 |                                 | R170                                 | 1-249-437-11<br>1-247-725-11   |                                      | 47K<br>10K                          |                            | 1/4W<br>1/4W                         |        |
| LP101                                | 8-759-933-23<br><fil<br>1-235-988-11</fil<br>  | FILTER MODUL   | E, LOW PASS                                    |                                 |                                 | R172<br>R173<br>R174                 | 1-249-405-11<br>1-247-716-11<br>1-249-432-11                                 | CARBON<br>CARBON<br>CARBON           | 100<br>1.8K<br>18K                  | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| Q101                                 | <tra<br>8-729-119-78</tra<br>  | NSISTOR>   | PSC2785-HFF                                    |                                 |                                 | R175<br>R176                         | 1-249-408-11<br>1-249-437-11<br>1-249-418-11                                 | CARBON                               | 180<br>47K<br>1.2K                  | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W                 |        |
| Q102<br>Q103<br>Q104                 | 8-729-119-78<br>8-729-119-78<br>8-729-119-78   | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2                       | SC2785-HFE                                     |                                 |                                 | R179<br>R220                         | 1-247-713-11<br>1-249-429-11   | CARBON                               | 1 K<br>10 K                         | 5%<br>5%                   | 1/4W<br>1/4W                         |        |
| Q105<br>Q106<br>Q107                 | 8-729-119-78<br>8-729-119-78<br>8-729-119-78   | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2                       | SC2785-HFE<br>SC2785-HFE<br>SC2785-HFE         |                                 |                                 | R221<br>R222<br>R223<br>R224         | 1-249-437-11<br>1-249-437-11<br>1-249-417-11<br>1-249-429-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON | 47K<br>47K<br>1K<br>10K<br>4.7K     | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| Q108<br>Q109<br>Q110                 | 8-729-119-78<br>8-729-119-78<br>8-729-900-36   | TRANSISTOR 2<br>TRANSISTOR 2<br>TRANSISTOR D                 | SC2785-HFE                                     |                                 |                                 | R225                                 | 1-249-425-11   | CARBON                               | 220<br>18K                          | 5%<br>5%                   | 1/4W<br>1/4W<br>1/4W                 |        |
| Q111<br>Q112<br>Q113<br>Q114         | 8-729-900-89<br>8-729-119-78<br>8-729-119-78<br>8-729-900-36   | TRANSISTOR E<br>TRANSISTOR 2<br>TRANSISTOR 2<br>TRANSISTOR E | 2SC2785-HFE<br>2SC2785-HFE                     |                                 |                                 | R231<br>R235<br>R236<br>R237         | 1-249-432-11<br>1-249-425-11<br>1-249-417-11<br>1-249-420-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON | 4.7K<br>1K<br>1.8K                  | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| Q115<br>Q125                         | 8-729-119-78<br>8-729-119-76   | TRANSISTOR 2   | SC2785-HFE<br>SA1175-HFE                       |                                 |                                 | R241<br>R242<br>R244<br>R260         | 1-249-408-11<br>1-249-405-11<br>1-249-405-11<br>1-249-433-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON | 180<br>100<br>100<br>22K            | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| Q131<br>Q132<br>Q135                 | 8-729-119-76<br>8-729-119-76<br>8-729-900-65   | TRANSISTOR 2<br>TRANSISTOR 2<br>TRANSISTOR I                 | SA1175-HFE                                     |                                 |                                 | R261                                 | 1-249-433-11 1-249-405-11  | CARBON                               | 22K<br>100                          | 5%<br>5%                   | 1/4W<br>1/4W                         |        |
|                                      | <res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td>R299</td><td>1-249-420-11</td><td></td><td>1.8K</td><td>5%</td><td>1/4W</td><td></td></res<> | SISTOR>  |  |                                 |                                 | R299                                 | 1-249-420-11   |                                      | 1.8K                                | 5%                         | 1/4W                                 |        |

## PVM-1440QM/1442QM/1444QM

|                                      |  | -  |   |                                 |                                 |                                      |  |  | QD                              |                            | QE                                   | •                        | QF        |
|--------------------------------------|--|--|---|---------------------------------|---------------------------------|--------------------------------------|--|--|---------------------------------|----------------------------|--------------------------------------|--------------------------|-----------|
| REF.NO.                              | PART NO.   | DESCRIPTION                                  |   |                                 | REMARK                          | REF.NO                               | . PART NO.   | DESCRIPTION                                    | N                               | _                          |                                      | REMAR                    | K<br>-    |
|                                      | <var< td=""><td>IABLE RESISTO</td><td>R&gt;</td><td></td><td></td><td>QE2<br/>QE3</td><td>*1-564-516-11<br/>*1-560-290-00</td><td>PLUG, CONNE</td><td>CTOR 13P<br/>CTOR (2.5</td><td>MM PI</td><td>TCH)</td><td></td><td></td></var<>  | IABLE RESISTO                                | R>                                      |                                 |                                 | QE2<br>QE3                           | *1-564-516-11<br>*1-560-290-00   | PLUG, CONNE                                    | CTOR 13P<br>CTOR (2.5           | MM PI                      | TCH)                                 |                          |           |
| RV103                                | 1-228-995-00   | RES, ADJ, CA                                 | RBON 22K                                |                                 |                                 | <br>                                 | <res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td></res<> | ISTOR>   |                                 |                            |                                      |                          |           |
| C102                                 | <\$WI  |  | r                                       |                                 |                                 | R180                                 | 1-249-405-11<br>1-249-412-11   |  | 100<br>390                      | 5%<br>5%<br>5%             | 1/4W<br>1/4W                         |                          |           |
| S102                                 | 1-553-977-41   |  |   | ******                          | *******                         |                                      | 1-249-417-11<br>1-249-436-11   | CARBON<br>CARBON                               | 1 K<br>39 K                     | 5%<br>5%<br>5%             | 1/4W<br>1/4W                         |                          |           |
|                                      | *A-1270-249-A  | QE BOARD, CO                                 |   | 1442QM                          | ONLY)                           | R184<br>R185<br>R186                 | 1-249-435-11<br>1-249-405-11<br>1-249-433-11                                       | CARBON<br>CARBON<br>CARBON                     |                                 | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W         |                          |           |
|                                      | <cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>R187<br/>R188<br/>R189</td><td>1-249-433-11<br/>1-249-405-11<br/>1-249-433-11</td><td>CARBON<br/>CARBON<br/>CARBON</td><td>100<br/>22K</td><td>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td><td></td></cap<>  | ACITOR>                                      |   |                                 |                                 | R187<br>R188<br>R189                 | 1-249-433-11<br>1-249-405-11<br>1-249-433-11                                       | CARBON<br>CARBON<br>CARBON                     | 100<br>22K                      | 5%<br>5%                   | 1/4W<br>1/4W<br>1/4W                 |                          |           |
| C152<br>C154<br>C155<br>C156<br>C157 | 1-101-004-00<br>1-123-875-11<br>1-124-499-11<br>1-124-499-11<br>1-126-160-11   | ELECT<br>ELECT                               | 0.01MF<br>10MF<br>1MF<br>1MF<br>1MF     | 20%<br>20%<br>20%<br>20%        | 50V<br>50V<br>50V<br>50V<br>50V | R190<br>R192<br>R193<br>R194<br>R195 | 1-249-433-11<br>1-249-437-11<br>1-249-429-11<br>1-249-433-11<br>1-249-433-11       | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 22K<br>47K<br>10K<br>22K<br>22K | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |                          |           |
| C158<br>C159<br>C160<br>C161<br>C162 | 1-124-499-11<br>1-124-477-11   | ELECT<br>ELECT<br>ELECT<br>ELECT<br>ELECT    | 47MF<br>1MF<br>1MF<br>47MF<br>47MF      | 20%<br>20%<br>20%<br>20%<br>20% | 25V<br>50V<br>50V<br>16V<br>16V | R196<br>R197<br>R198<br>R199         | 1-249-405-11<br>1-249-421-11<br>1-249-421-11<br>1-249-441-11                       | CARBON<br>CARBON<br>CARBON<br>CARBON           | 100<br>2.2K<br>2.2K<br>100K     | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W         |                          |           |
| C163<br>C164<br>C165<br>C166<br>C167 | 1-124-477-11<br>1-161-021-11<br>1-124-477-11<br>1-124-477-11<br>1-124-477-11   | ELECT<br>CERAMIC<br>ELECT<br>ELECT<br>ELECT  | 47MF<br>0.047MF<br>47MF<br>47MF<br>47MF | 20%<br>10%<br>20%<br>20%<br>20% | 16V<br>25V<br>16V<br>16V<br>16V | R200<br>R201<br>R202<br>R203<br>R204 | 1-249-435-11<br>1-249-428-11<br>1-249-417-11<br>1-249-429-11<br>1-249-428-11       | CARBON   | 1K<br>10K<br>8.2K               | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |                          |           |
| C168<br>C169<br>C170<br>C171         | 1-124-589-11<br>1-161-021-11<br>1-124-477-11<br>1-124-925-11   | ELECT<br>CERAMIC<br>ELECT<br>ELECT           | 47MF<br>0.047MF<br>47MF<br>2.2MF        | 20%<br>10%<br>20%<br>20%        | 16V<br>25V<br>25V<br>50V        | R205<br>R206<br>R207<br>R208<br>R209 | 1-249-405-11<br>1-249-429-11<br>1-249-429-11<br>1-249-417-11<br>1-249-405-11       | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 100<br>10K<br>10K<br>1K<br>100  | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |                          |           |
|                                      | <d10< td=""><td></td><td></td><td></td><td></td><td>R210</td><td>1-249-433-11<br/>1-249-433-11</td><td>CARBON<br/>CARBON</td><td>22K<br/>22K<br/>22K</td><td></td><td>1/4W<br/>1/4W</td><td></td><td></td></d10<>  |  |   |                                 |                                 | R210                                 | 1-249-433-11<br>1-249-433-11   | CARBON<br>CARBON                               | 22K<br>22K<br>22K               |                            | 1/4W<br>1/4W                         |                          |           |
| D108<br>D109<br>D110<br>D111<br>D112 | 8-719-911-19<br>8-719-911-19<br>8-719-911-19<br>8-719-911-19<br>8-719-911-19   | DIODE 1SS119<br>DIODE 1SS119<br>DIODE 1SS119 | )<br>)                                  |                                 |                                 | R212<br>R213<br>R215<br>R216         | 1-249-433-11<br>1-249-433-11<br>1-249-405-11<br>1-249-411-11                       | CARBON<br>CARBON<br>CARBON<br>CARBON           | 22K<br>22K<br>100<br>330        | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W         |                          |           |
| D114<br>D115                         | 8-719-911-19<br>8-719-911-19   | DIODE 188119                                 | )                                       |                                 |                                 | R217<br>R251<br>R252<br>R253<br>R265 | 1-249-433-11<br>1-249-417-11<br>1-249-417-11<br>1-249-417-11<br>1-249-415-11       | CARBON<br>CARBON<br>CARBON                     | 22K<br>1K<br>1K<br>1K<br>680    | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |                          |           |
| 10100                                | <[[;   |  |   |                                 |                                 |                                      | **********   |  |                                 |                            |                                      | *****                    | **        |
| 10109<br>10110                       | 8-759-800-81<br>8-759-800-81<br>8-759-800-81   | IC LA7016<br>IC LA7016                       |   |                                 |                                 | <br>                                 | *A-1270-266-A  | QF BOARD, C                                    |                                 | (PVM·                      | 1440QM                               | ONLY)                    |           |
| 16111                                | 8-759-710-31<br><tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td><td>1-537-210-11<br/>1-537-211-11<br/>*4-379-104-01</td><td>TERMINAL BO</td><td>DARD</td><td></td><td></td><td></td><td></td></tra<>   | NSISTOR>                                     |   |                                 |                                 |                                      | 1-537-210-11<br>1-537-211-11<br>*4-379-104-01                                      | TERMINAL BO                                    | DARD                            |                            |                                      |                          |           |
| Q116<br>Q117                         | 8-729-119-78<br>8-729-119-78   | TRANSISTOR 2                                 | SC2785-HFE                              |                                 |                                 |                                      | <ca< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td><td></td><td></td></ca<> | PACITOR>                                       |                                 |                            |                                      |                          |           |
| Q118<br>Q119<br>Q120                 | 8-729-119-76<br>8-729-900-36<br>8-729-119-78   | TRANSISTOR D                                 | TC124ES                                 |                                 |                                 | C101<br>C102                         | 1-124-589-11<br>1-126-160-11   | ELECT  | 47MF<br>1MF                     |                            | 20%<br>20%                           | 16V<br>50V               |           |
| Q121<br>Q127                         | 8-729-119-78<br>8-729-900-65   |  |   |                                 |                                 | C103<br>C105<br>C106                 | 1-126-160-11<br>1-161-021-11<br>1-126-160-11                                       | CERAMIC  | 1MF<br>0.047M<br>1MF            | F                          | 20%<br>10%<br>20%                    | 50V<br>25V<br>50V        | _         |
| QE1                                  | <con< td=""><td>NECTOR&gt;</td><td>CTOR 12P</td><td></td><td></td><td>C107<br/>C108<br/>C109<br/>C110</td><td>1-126-160-11<br/>1-124-589-11<br/>1-124-589-11<br/>1-126-160-11</td><td>ELECT<br/>ELECT</td><td>1MF<br/>47MF<br/>47MF<br/>1MF</td><td></td><td>20%<br/>20%<br/>20%<br/>20%</td><td>50V<br/>16V<br/>16V<br/>50V</td><td>a to chea</td></con<> | NECTOR>                                      | CTOR 12P                                |                                 |                                 | C107<br>C108<br>C109<br>C110         | 1-126-160-11<br>1-124-589-11<br>1-124-589-11<br>1-126-160-11                       | ELECT<br>ELECT                                 | 1MF<br>47MF<br>47MF<br>1MF      |                            | 20%<br>20%<br>20%<br>20%             | 50V<br>16V<br>16V<br>50V | a to chea |
|                                      |  |  |   |                                 |                                 | ,                                    | 100 **   | •  | -                               |                            |                                      |                          |           |

QF

QG

| REF.NO. PART   | NO.   | DESCRIPTION  |  |   | REMARK                          | REF.NO.  | PART NO.   | DESCRIPTION   |   |                                  |  | REMARK                                  |
|--|---|--|--|---|---------------------------------|--|--|---|---|----------------------------------|--|---|
| C112 1-126<br>C113 1-124<br>C114 1-161               | -160-11<br>-589-11<br>-021-11   | ELECT<br>ELECT<br>ELECT<br>CERAMIC<br>ELECT                    | 47MF<br>1MF<br>47MF<br>0.047MF<br>47MF | 20%<br>20%<br>20%<br>10%<br>20%   | 16V<br>50V<br>16V<br>25V<br>16V | R123<br>R124<br>R125<br>R126<br>R127                 | 1-247-104-00   | CARBON CARBON CARBON CARBON CARBON CARBON             | 22K<br>10K<br>10K<br>75<br>75                 | 5%<br>5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |   |
| C118 1-124<br>C119 1-126<br>C120 1-126<br>C121 1-126 | -589-11<br>-160-11<br>-160-11<br>-160-11  | ELECT<br>ELECT<br>ELECT<br>ELECT<br>ELECT                      | 47MF<br>47MF<br>1MF<br>1MF<br>1MF      | 20%<br>20%<br>20%<br>20%<br>20%   | 16V<br>16V<br>50V<br>50V<br>50V | R128<br>R129<br>R130<br>R131<br>R132                 | 1-247-104-00<br>1-249-417-11<br>1-247-104-00<br>1-247-804-11<br>1-247-704-11                                 | CARBON CARBON CARBON CARBON CARBON                    | 75<br>1K<br>75<br>75<br>220<br>220            | 5%<br>5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |   |
| C123 1-124<br>C124 1-124<br>C125 1-102<br>C126 1-126 | -589-11<br>-959-00<br>-160-11   | ELECT<br>ELECT<br>ELECT<br>CERAMIC<br>ELECT                    | 47MF<br>47MF<br>47MF<br>22PF<br>1MF    | 20%<br>20%<br>20%<br>5%<br>20%  | 16V<br>16V<br>16V<br>50V<br>50V | R133<br>R134<br>R135<br>R136<br>R138                 | 1-247-704-11<br>1-249-429-11<br>1-249-414-11<br>1-247-704-11<br>1-249-409-11<br>1-249-433-11                 | CARBON CARBON CARBON CARBON CARBON CARBON CARBON      | 10K<br>560<br>220<br>220<br>22K               | 5%<br>5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |   |
| C128 1-120<br>C129 1-120<br>C130 1-100<br>C131 1-120 | 0-157-11<br>0-157-11<br>0-157-11<br>2-965-00<br>0-157-11  | ELECT<br>ELECT<br>ELECT<br>CERAMIC<br>ELECT                    | 10MF<br>10MF<br>10MF<br>39PF<br>10MF   | 20%<br>20%<br>20%<br>5%<br>20%  | 16V<br>16V<br>16V<br>50V<br>16V | R141<br>R142<br>R148<br>R149<br>R154<br>R155         |  | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON        | 10K<br>22K<br>22K<br>22K<br>22K<br>22K        | 5%<br>5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |   |
| C134 1-103<br>C135 1-103                             | 2-947-00<br>2-947-00<br>2-947-00<br>1-589-11<br><d10< td=""><td>CERAMIC<br/>CERAMIC<br/>CERAMIC<br/>ELECT</td><td>10PF<br/>10PF<br/>10PF<br/>47MF</td><td>0.5PF<br/>0.5PF<br/>0.5PF<br/>20%</td><td>50V<br/>50V<br/>50V<br/>16V</td><td>R187<br/>R201<br/>R202<br/>R206<br/>R207</td><td></td><td>CARBON<br/>CARBON<br/>CARBON<br/>CARBON</td><td>100<br/>75<br/>22K<br/>1.5K</td><td>5%<br/>5%<br/>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W<br/>1/4W<br/>1/4W</td><td></td></d10<> | CERAMIC<br>CERAMIC<br>CERAMIC<br>ELECT                         | 10PF<br>10PF<br>10PF<br>47MF           | 0.5PF<br>0.5PF<br>0.5PF<br>20%  | 50V<br>50V<br>50V<br>16V        | R187<br>R201<br>R202<br>R206<br>R207                 |  | CARBON<br>CARBON<br>CARBON<br>CARBON                  | 100<br>75<br>22K<br>1.5K                      | 5%<br>5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |   |
|  | 9-110-08  | DIODE RD8.2E<br>DIODE RD8.2E                                   |  |   |                                 |  |  | IABLE RESISTOR  | <b>l&gt;</b>                                  |                                  | 17 4**                                       |   |
|  | 9-710-31<br>9-710-31  | IC NJM2243S<br>IC NJM2243S<br>IC LA7016                        |  |   |                                 | S101<br>S102   | 1-570-145-11   | SWITCH, SLIDE<br>SWITCH, SLIDE                        | 3   |                                  |  |   |
| L101 1-41  | <01<br>0-478-11   | L><br>INDUCTOR   | 47UH                                   |   |                                 |  | **************************************   |   | MPLETE  |                                  |  |   |
| Q113 8-72  | 9-119-78  | NSISTOR><br>TRANSISTOR 2<br>INECTOR>                           | SC2785-H                               | FE  |                                 | C138   | 1-124-477-11<br>1-124-477-11<br>1-101-004-00   | ELECT<br>CERAMIC                                      | 47MF<br>47MF<br>0.01MF                        |                                  | 20%<br>20%                                   | 25V<br>25V<br>50V                       |
| QF6 *1-56  | 0-721-21  | PLUG, CONNEC   | TOR 2P                                 |   |                                 | C140<br>C142<br>C143<br>C144<br>C145                 | 1-123-875-11<br>1-124-477-11<br>1-124-477-11<br>1-124-477-11<br>1-124-477-11                                 | ELECT<br>ELECT<br>ELECT<br>ELECT<br>ELECT             | 10MF<br>47MF<br>47MF<br>47MF<br>47MF          |                                  | 20%<br>20%<br>20%<br>20%<br>20%              | 50V<br>25V<br>16V<br>25V<br>25V         |
| R104 1-24<br>R106 1-24<br>R107 1-24<br>R108 1-24     | 9-429-11<br>9-429-11<br>9-462-11<br>9-433-11<br>9-429-11  | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON                 | 10K<br>22K<br>22K<br>10K               | 5% 1/4%<br>5% 1/4%<br>5% 1/4%<br>5% 1/4%<br>5% 1/4%                       |                                 | C146<br>C147<br>C148<br>C149<br>C150                 | 1-123-875-11<br>1-124-477-11<br>1-123-875-11<br>1-124-499-11<br>1-123-875-11                                 | ELECT<br>ELECT<br>ELECT<br>ELECT<br>ELECT             | 10MF<br>47MF<br>10MF<br>1MF<br>10MF<br>1000MF | •                                | 20%<br>20%<br>20%<br>20%<br>20%<br>20%       | 50V<br>25V<br>50V<br>50V<br>50V<br>6.3V |
| R112 1-24<br>R114 1-24<br>R115 1-27<br>R116 1-24     | 7-104-00<br>7-104-00<br>9-405-11<br>9-433-11<br>9-433-11<br>7-104-00<br>7-104-00  | CARBON CARBON CARBON CARBON CARBON CARBON CARBON CARBON CARBON | 22K                                    | 5% 1/4W<br>5% 1/4W<br>5% 1/4W<br>5% 1/4W<br>5% 1/4W<br>5% 1/4W<br>5% 1/4W | }<br>}<br>}<br>}                | C152<br>C153<br>C154<br>C155<br>C156<br>C157<br>C159 | 1-124-471-00<br>1-124-499-11<br>1-124-477-11<br>1-102-971-00<br>1-101-880-00<br>1-124-477-11<br>1-124-477-11 | ELECT<br>ELECT<br>ELECT<br>CERAMIC<br>CELECT<br>ELECT | 1MF<br>47MF<br>82PF<br>47PF<br>47MF<br>47MF   |                                  | 20%<br>20%<br>5%<br>5%<br>20%<br>20%         | 25V<br>50V<br>50V<br>50V<br>25V<br>25V  |
| R119 1-2   | 9-429-11<br>9-405-11  | CARBON<br>CARBON   | 10K<br>100                             | 5% 1/4V<br>5% 1/4V  | ì                               | C161   | 1-124-477-11   | ELECT   | 47MF  |                                  | 20%  | 25V                                     |

## PVM-1440QM/1442QM/1444QM

|                                      |   |  |                                      |                            |                            |                              |  |  |                              |                            | G                            | <b>l</b> G | A   |
|--------------------------------------|---|--|--------------------------------------|----------------------------|----------------------------|------------------------------|--|--|------------------------------|----------------------------|------------------------------|------------|-----|
| REF.NO.                              | PART NO.  | DESCRIPTIO   | N<br>-                               |                            | REMARK                     | REF.NO.                      | PART NO.   | DESCRIPTION                                    |                              |                            |                              | REMARK     |     |
| C171<br>C172                         | 1-101-004-00<br>1-124-120-11  | CERAMIC<br>ELECT   | 0.01MF<br>220MF                      | 20%                        | 50 <b>V</b><br>25 <b>V</b> | R173<br>R174                 | 1-215-397-00<br>1-215-399-00   | METAL<br>METAL                                 | 100<br>120                   | 1%<br>1%                   | 1/6W<br>1/6W                 |            |     |
|                                      | <010  | DE>  |                                      |                            |                            | R175<br>R176<br>R177         | 1-215-397-00<br>1-215-865-11<br>1-247-695-11   | METAL<br>METAL OXIDE<br>CARBON                 | 100<br>220<br>39             | 1%<br>5%<br>5%             | 1/6W<br>1W<br>1/4W           | F          |     |
| D103<br>D104<br>D106                 | 8-719-911-19<br>8-719-911-19<br>8-719-911-19  | DIODE ISSII<br>DIODE ISSII<br>DIODE ISSII                          | 9                                    |                            |                            | R178<br>R179                 | 1-249-412-11<br>1-249-435-11   | CARBON<br>CARBON                               | 390<br>33K                   | 5%<br>5%<br>5%             | 1/4W<br>1/4W                 |            |     |
| D107<br>D108                         | 8-719-911-19<br>8-719-109-92  | DIODE 15511<br>DIODE RD6.2   | ES-B1                                |                            |                            | R180<br>R181<br>R182         | 1-249-434-11<br>1-249-414-11<br>1-249-419-11   | CARBON<br>CARBON<br>CARBON<br>CARBON           | 27K<br>560<br>1.5K<br>470    | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W |            |     |
| D109<br>D111<br>D112<br>D113         | 8-719-110-30<br>8-719-911-19<br>8-719-911-19<br>8-719-911-19  | DIODE RD12E<br>DIODE 1SS11<br>DIODE 1SS11<br>DIODE 1SS11           | 9<br>9                               |                            |                            | R183<br>R184<br>R185         | 1-249-413-11<br>1-249-413-11<br>1-249-434-11   | CARBON   | 470<br>470<br>27K            | 5%                         | 1/4W<br>1/4W                 |            |     |
| 0113                                 | <10>  |  | ,                                    |                            |                            | R186<br>R188<br>R189<br>R190 | 1-249-428-11<br>1-249-429-11<br>1-249-429-11<br>1-249-429-11   | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 8.2K<br>10K<br>10K<br>10K    | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |            |     |
| 10105                                | 8-759-800-81<br>8-759-800-81<br>8-759-800-81  | IC LA7016<br>IC LA7016<br>IC LA7016                                |                                      |                            |                            | R191<br>R192                 | 1-249-417-11<br>1-249-433-11   | CARBON<br>CARBON                               | 1 K<br>22 K                  | 5%<br>5%<br>5%<br>1%       | 1/4W                         |            |     |
|                                      | <01   | L>   |                                      |                            |                            | R193<br>R198<br>R199         | 1-249-433-11<br>1-215-413-00<br>1-215-413-00   | CARBON<br>METAL<br>METAL                       | 22K<br>470<br>470            | 1%                         | 1/4W<br>1/6W<br>1/6W         |            |     |
| 1.111                                | 1-408-413-00  | INDUCTOR   | 22UH                                 |                            |                            | R200<br>R203<br>R204         | 1-215-413-00<br>1-249-433-11<br>1-249-434-11   | METAL<br>CARBON<br>CARBON                      | 470<br>22K<br>27K            | 1%<br>5%<br>5%             | 1/6W<br>1/4W<br>1/4W         |            |     |
|                                      | <tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R205</td><td>1-249-415-11</td><td></td><td>680</td><td>5%</td><td>1/4W</td><td></td><td></td></tra<> | NSISTOR>   |                                      |                            |                            | R205                         | 1-249-415-11   |  | 680                          | 5%                         | 1/4W                         |            |     |
| Q101<br>Q102<br>Q103<br>Q105<br>Q106 | 8-729-900-36<br>8-729-119-78<br>8-729-119-78<br>8-729-177-42<br>8-729-177-42  | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR | 2SC2785-HI<br>2SC2785-HI<br>2SD774-3 |                            |                            | *****                        | **************<br>*A-1296-520-A  | A BOARD, COM                                   | PLETE                        | ******                     | *****                        | ******     | **  |
| Q107<br>Q108<br>Q109                 | 8-729-119-76<br>8-729-119-78<br>8-729-900-36  | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR                             | 2SA1175-HI<br>2SC2785-HI<br>DTC124ES |                            |                            |                              | *4-329-153-00<br>*4-341-751-01<br>*4-341-752-01<br>*4-363-404-00   | EYELET<br>EYELET<br>HOLDER, IC                 |                              |                            |                              |            |     |
| Q111<br>Q112                         | 8-729-900-36<br>8-729-900-65  | TRANSISTOR<br>TRANSISTOR   | DTA144ES                             |                            |                            |                              |  | SPACER, MICA                                   | l                            |                            |                              |            |     |
| Q114                                 | 8-729-900-65  | TRANSISTOR   | DTA144ES                             |                            |                            | A1                           | *1-508-768-00  | NNECTOR>                                       | 'NR /5M                      | M פודרו                    | H) 6P                        |            |     |
| R120<br>R121                         | <res<br>1-249-417-11<br/>1-249-405-11</res<br>  | SISTOR><br>CARBON<br>CARBON  | 1 K<br>100                           | 5% 1/4<br>5% 1/4           |                            | A1<br>A2<br>A3<br>A4<br>A5   | *1-560-123-00<br>*1-565-498-11<br>*1-564-596-11<br>*1-564-596-11   | PLUG, CONNEC<br>CONNECTOR, E<br>PLUG, CONNEC   | TOR (2<br>BOARD T<br>CTOR 15 | .5MM) 1<br>O BOARI<br>P    | 3P                           |            |     |
| R137<br>R139<br>R143                 | 1-247-104-00<br>1-249-429-11<br>1-249-412-11  | CARBON<br>CARBON<br>CARBON   | 75                                   | 5% 1/4<br>5% 1/4<br>5% 1/4 | 4 W<br>4 W                 | A6<br>A7                     | *1-565-497-11<br>*1-565-498-11   | CONNECTOR, E                                   | BOARD T                      | O BOAR                     | D 7P                         |            |     |
| R144<br>R145                         | 1-249-405-11<br>1-249-436-11  | CARBON<br>CARBON   | 100<br>39K                           | 5% 1/4                     | 4 W                        | A8<br>A9<br>A10              | *1-565-506-11<br>*1-565-506-11<br>*1-564-596-11  | CONNECTOR, E                                   | BOARD T                      | O BOAR                     |                              |            |     |
| R146<br>R150<br>R151                 | 1-249-435-11<br>1-249-405-11<br>1-249-433-11  | CARBON<br>CARBON<br>CARBON   | 33K<br>100<br>22K                    | 5% 1/4<br>5% 1/4<br>5% 1/4 | 4 W                        | A11<br>A13<br>A14            | *1-564-596-41<br>*1-568-105-11<br>*1-568-105-11  | HOUSING, COM                                   | NECTOR                       | 10P                        |                              |            |     |
| R152<br>R153<br>R156                 | 1-249-433-11<br>1-249-405-11<br>1-249-417-11  | CARBON<br>CARBON<br>CARBON   | 22K<br>100<br>1K                     | 5% 1/4<br>5% 1/4<br>5% 1/4 | 4W                         | A16<br>A17                   | *1-560-123-00<br>*1-565-496-11   | PLUG, CÓNNEC<br>CONNECTOR, E                   | CTOR (2<br>BOARD T           | .5MM)<br>O BOAR            | D 5P                         |            |     |
| K157<br>K158                         | 1-249-433-11<br>1-249-433-11  | CARBON<br>CARBON   |                                      | 5% 1/5% 1/5% 1/5% 1/5%     | 4W                         | A18<br>A19<br>A20            | *1-564-038-00<br>*1-508-768-00<br>*1-564-507-11  | PIN, CONNECT<br>PLUG, CONNEC                   | TOR (5M<br>Ctor 4P           | M PITC                     |                              |            |     |
| R161<br>R162<br>R163<br>R164         | 1-249-438-11<br>1-249-405-11<br>1-249-417-11<br>1-249-435-11  | CARBON<br>CARBON<br>CARBON<br>CARBON                               | 56K<br>100<br>1K<br>33K              | 5% 1/5% 1/5% 1/5% 1/5% 1/  | 4W<br>4W                   | A22                          | *1-564-505-11<br><ca< td=""><td>PLUG, CONNEC</td><td>JOK ZP</td><td></td><td></td><td></td><td></td></ca<> | PLUG, CONNEC                                   | JOK ZP                       |                            |                              |            |     |
| R165                                 | 1-249-405-11  | CARBON   |                                      |                            | 4W                         | £300                         | 1-123-875-11   | ELECT  | 10MF<br>47MF                 |                            | 20%<br>20%                   | 50V<br>25V | - 1 |
| R166<br>R167<br>R172                 | 1-249-433-11<br>1-249-433-11<br>1-249-405-11  | CARBON<br>CARBON<br>CARBON   | 22K<br>22K<br>100                    | 5% 1/<br>5% 1/<br>5% 1/    | 4 W                        | C301<br>C302<br>C303         | 1-124-477-11<br>1-101-884-00<br>1-136-173-00   | CERAMIC  | 56PF<br>0.47M                | ıF                         | 5%<br>5%                     | 50V<br>50V |     |

The components identified by shading and mark  $\triangle$  are critical for safety.
Replace only with part number specified.

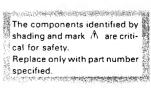


| REF.NO.                              | PART NO.   | DESCRIPTION                                       |   |                                 | REMARK                          | REF.NO.                              | PART NO.   | DESCRIPTION                                  |   |                                   | REMARK                                    |
|--------------------------------------|--|---|---|---------------------------------|---------------------------------|--------------------------------------|--|--|---|-----------------------------------|---|
| C304<br>C305<br>C306<br>C307<br>C308 | 1-136-173-00<br>1-102-125-00<br>1-124-477-11                                 | CERAMIC<br>FILM<br>CERAMIC<br>ELECT<br>ELECT      | 56PF<br>0.47MF<br>0.0047MF<br>47MF<br>47MF          | 5%<br>5%<br>10%<br>20%<br>20%   | 50V<br>50V<br>50V<br>25V<br>25V | C415<br>C416<br>C417<br>C418<br>C419 | 1-130-479-00   | FILM<br>ELECT<br>FILM<br>FILM<br>MYLAR       | 0.1MF<br>22MF<br>0.047MF<br>0.01MF<br>0.0047MF      | 5%<br>20%<br>5%<br>5%<br>5%<br>5% | 50V<br>50V<br>50V<br>50V<br>50V           |
| C309<br>C310<br>C311<br>C312<br>C313 | 1-102-125-00<br>1-102-125-00<br>1-123-875-11<br>1-102-074-00                 | CERAMIC<br>ELECT<br>CERAMIC                       | 0.0047MF<br>0.0047MF<br>0.0047MF<br>10MF<br>0.001MF | 10%<br>10%<br>10%<br>20%<br>10% | 50V<br>50V<br>50V<br>50V        | C420<br>C421<br>C422<br>C423<br>C424 | 1-136-161-00<br>1-136-153-00<br>1-130-479-00<br>1-136-153-00<br>1-130-479-00                     | FILM<br>FILM<br>MYLAR<br>FILM<br>MYLAR       | 0.047MF<br>0.01MF<br>0.0047MF<br>0.01MF<br>0.0047MF | 5%<br>5%<br>5%<br>5%              | 50V<br>50V<br>50V<br>50V<br>50V           |
| C314<br>C315<br>C316<br>C317<br>C318 | 1-136-161-00<br>1-136-161-00<br>1-136-165-00                                 | FILM<br>FILM                                      | 0.001MF<br>4.7MF<br>0.047MF<br>0.047MF<br>0.1MF     | 10%<br>20%<br>5%<br>5%<br>5%    | 50V<br>50V<br>50V<br>50V<br>50V | C425<br>C426<br>C427<br>C428<br>C430 | 1-124-478-11<br>1-136-161-00<br>1-124-478-11<br>1-124-478-11<br>1-101-888-00                     | FILM<br>ELECT<br>ELECT<br>CERAMIC<br>CERAMIC | 100MF<br>0.047MF<br>100MF<br>100MF<br>68PF<br>68PF  | 20%<br>5%<br>20%<br>20%<br>5%     | 50V<br>25V<br>25V<br>50V<br>50V           |
| C319<br>C320<br>C321<br>C322<br>C323 | 1-101-004-00<br>1-124-499-11<br>1-124-477-11<br>1-124-902-00<br>1-101-361-00 | CERAMIC<br>ELECT<br>ELECT<br>ELECT<br>CERAMIC     | 0.01MF<br>1MF<br>47MF<br>0.47MF<br>150PF            | 20%<br>20%<br>20%<br>5%         | 50V<br>50V<br>25V<br>50V<br>50V | C431<br>C470<br>C471<br>C472<br>C473 | 1-124-120-11<br>1-101-004-00<br>1-124-478-11   | ELECT<br>ELECT                               | 220MF<br>220MF<br>0.01MF<br>100MF<br>0.01MF         | 20%<br>20%<br>20%                 | 25V<br>25V<br>50V<br>25V<br>50V           |
| C324<br>C325<br>C326<br>C327<br>C328 | 1-124-477-11<br>1-101-361-00<br>1-124-477-11<br>1-124-477-11<br>1-124-009-11 | ELECT<br>CERAMIC<br>ELECT<br>ELECT<br>ELECT       | 47MF<br>150PF<br>47MF<br>47MF                       | 20%<br>5%<br>20%<br>20%<br>20%  | 25V<br>50V<br>25V<br>25V<br>25V | C474<br>C475<br>C476<br>C477<br>C478 | 1-101-004-00<br>1-101-004-00<br>1-101-888-00<br>1-101-006-00<br>1-101-004-00<br>1-124-478-11     | CERAMIC<br>CERAMIC                           | 0.01MF<br>68PF<br>0.047MF<br>0.01MF<br>100MF        | 5%<br>20%                         | 50V<br>50V<br>50V<br>50V<br>25V           |
| C329<br>C330<br>C331<br>C332<br>C333 | 1-124-477-11<br>1-101-880-00<br>1-101-004-00<br>1-102-971-00<br>1-136-165-00 | ELECT<br>CERAMIC<br>CERAMIC<br>CERAMIC<br>FILM    | 47MF<br>47PF<br>0.01MF<br>82PF<br>0.1MF             | 20%<br>5%<br>5%<br>5%           | 25V<br>50V<br>50V<br>50V<br>50V | C479<br>C480<br>C481<br>C482<br>C483 | 1-101-004-00<br>1-101-004-00<br>1-124-478-11<br>1-124-120-11                                     | CERAMIC<br>CERAMIC<br>ELECT<br>ELECT         | 0.01MF<br>0.01MF<br>100MF<br>220MF<br>0.01MF        | 20%                               | 50V<br>50V<br>25V<br>25V<br>50V           |
| C334<br>C335<br>C336<br>C337<br>C338 | 1-136-173-00<br>1-136-173-00<br>1-102-971-00<br>1-124-477-11<br>1-124-477-11 | FILM<br>FILM<br>CERAMIC<br>ELECT<br>ELECT         | 0.47MF<br>0.47MF<br>82PF<br>47MF<br>47MF            | 5%<br>5%<br>5%<br>20%<br>20%    | 50V<br>50V<br>50V<br>25V<br>25V | C484<br>C485<br>C486<br>C487<br>C488 | 1-101-004-00<br>1-124-478-11<br>1-101-004-00<br>1-101-004-00<br>1-124-120-11                     | CERAMIC<br>CERAMIC<br>ELECT                  | 100MF<br>0.01MF<br>0.01MF<br>220MF                  | 20%<br>20%<br>20%                 | 25V<br>50V<br>50V<br>25V<br>50V           |
| C339<br>C340<br>C341<br>C342<br>C343 | 1-124-477-11<br>1-124-477-11<br>1-124-477-11<br>1-124-477-11<br>1-124-477-11 | ELECT<br>ELECT<br>ELECT<br>ELECT<br>ELECT         | 47MF<br>47MF<br>47MF<br>47MF<br>47MF                | 20%<br>20%<br>20%<br>20%<br>20% | 25V<br>25V<br>25V<br>25V<br>25V | C489<br>C491<br>C492<br>C493<br>C494 | 1-124-927-11<br>1-101-004-00<br>1-124-120-11<br>1-101-004-00<br>1-124-120-11                     | ELECT<br>CERAMIC<br>ELECT                    | 4.7MF<br>0.01MF<br>220MF<br>0.01MF<br>220MF         | 20%<br>20%                        | 50V<br>25V<br>50V<br>25V<br>50V           |
| C344<br>C345<br>C346<br>C347<br>C348 | 1-124-477-11<br>1-102-949-00<br>1-126-233-11<br>1-123-875-11<br>1-101-004-00 | ELECT<br>ELECT<br>CERAMIC                         | 0.01MF  | 20%<br>5%<br>20%<br>20%         | 25V<br>50V<br>50V<br>50V<br>50V | C495<br>C496<br>C497<br>C498<br>C500 | 1-101-880-00<br>1-124-478-11<br>1-124-120-11<br>1-124-925-11<br>1-101-884-00                     | ELECT<br>ELECT<br>CERAMIC                    | 47PF<br>100MF<br>220MF<br>2.2MF<br>56PF             | 5%<br>20%<br>20%<br>20%<br>5%     | 25V<br>25V<br>50V<br>50V                  |
| C349<br>C350<br>C351<br>C352<br>C353 | 1-124-120-11<br>1-101-884-00<br>1-102-106-00<br>1-102-125-00<br>1-161-021-11 | ELECT<br>CERAMIC<br>CERAMIC<br>CERAMIC<br>CERAMIC | 220MF<br>56PF<br>100PF<br>0.0047MF<br>0.047MF       | 20%<br>5%<br>10%<br>10%<br>10%  | 25V<br>50V<br>50V<br>50V<br>25V | C501<br>C502<br>C503<br>C504<br>C505 | 1-124-120-11<br>1-124-927-11<br>1-124-927-11<br>1-102-114-00<br>1-123-875-11                     | ELECT  | 220MF<br>4.7MF<br>4.7MF<br>470PF<br>10MF            | 20%<br>20%<br>20%<br>10%<br>20%   | 25V<br>50V<br>50V<br>50V                  |
| C401<br>C402<br>C403<br>C404<br>C405 | 1-136-153-00<br>1-136-165-00<br>1-136-165-00<br>1-136-169-00<br>1-136-169-00 | FILM<br>FILM<br>FILM<br>FILM<br>FILM              | 0.01MF<br>0.1MF<br>0.1MF<br>0.22MF<br>0.22MF        | 5%<br>5%<br>5%<br>5%            | 50V<br>50V<br>50V<br>50V<br>50V | C506<br>C507<br>C508<br>C509<br>C510 | 1-136-298-00<br>1-106-351-00<br>1-108-626-11<br>1-106-375-12<br>1-108-626-11                     | MYLAR<br>MYLAR<br>MYLAR<br>MYLAR             | 0.0033MF<br>0.0022MF<br>0.01MF<br>0.022MF<br>0.01MF | 5%<br>5%<br>10%<br>10%            | 100 V<br>100 V<br>100 V<br>100 V<br>100 V |
| C406<br>C407<br>C408<br>C409<br>C410 | 1-136-169-00<br>1-124-464-11<br>1-124-464-11<br>1-124-464-11<br>1-124-499-11 | FILM<br>ELECT<br>ELECT<br>ELECT<br>ELECT          | 0.22MF<br>0.22MF<br>0.22MF<br>0.22MF<br>1MF         | 5%<br>20%<br>20%<br>20%<br>20%  | 50V<br>50V<br>50V<br>50V<br>50V | 1 C515 Z                             | 1-124-902-00<br>1-102-030-00<br>1-129-720-00<br><u>1</u> .1-136-078-11<br><u>1</u> .1-162-116-51 | CERAMIC<br>FILM<br>FILM<br>CERAMIC           | 0.47MF<br>330PF<br>0.033MF<br>0.0098MF<br>680PF     | 20%<br>10%<br>5%<br>3%<br>10%     | 50V<br>500V<br>630V<br>2KV<br>2KV         |
| C411<br>C412<br>C413<br>C414         | 1-124-499-11<br>1-124-463-00<br>1-124-463-00<br>1-136-165-00                 | ELECT   | 1MF<br>0.1MF<br>0.1MF<br>0.1MF                      | 20%<br>20%<br>20%<br>5%         | 50V<br>50V<br>50V<br>50V        | C516 Z<br>C517<br>C518               | A. 1-162-116-51<br>1-108-692-11<br>1-126-104-11  | CERAMIC<br>MYLAR                             | 680PF<br>0.01MF<br>470MF                            | 10%<br>10%<br>20%                 | 2KV<br>200V<br>35V                        |

## PVM-1440QM/1442QM/1444QM

| Α |
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| DEE NO                               | DART NO  | DECEMBRION                                      |  |                                 | DEMARK                               | IDEE NO                                   | DART NO  | DESCRIPTION  |  |                                 | REMARK                           |
|--------------------------------------|--|---|--|---------------------------------|--------------------------------------|---|--|--|--|---------------------------------|----------------------------------|
| KEF.NU.                              | PART NO.   | DESCRIPTION                                     |  |                                 |                                      | NET.NU.                                   | PART NO.   |  |  |                                 |                                  |
| C519<br>C520<br>C521<br>C522<br>C523 | 1-124-120-11<br>1-124-494-00<br>1-102-212-00<br>1-102-212-00<br>1-162-114-00 | ELECT<br>ELECT<br>CERAMIC<br>CERAMIC<br>CERAMIC | 220MF<br>33MF<br>820PF<br>820PF<br>0.0047MF    | 20%<br>10%<br>10%               | 25V<br>160V<br>500V<br>500V<br>2KV   | C584<br>C585<br>C590<br>C591<br>C801      | 1-126-233-11<br>1-102-110-00<br>1-126-233-11<br>1-124-925-11<br>1-101-004-00 | CERAMIC<br>ELECT<br>ELECT  | 22MF<br>220PF<br>22MF<br>2.2MF<br>0.01MF       | 20%<br>10%<br>20%<br>20%        | 50V<br>50V<br>50V<br>50V         |
| C524<br>C525<br>C526<br>C527<br>C528 | 1-108-700-11<br>1-108-634-11<br>1-124-477-11<br>1-124-902-00<br>1-124-902-00 | MYLAR<br>MYLAR<br>ELECT<br>ELECT<br>ELECT       | 0.047MF<br>0.047MF<br>47MF<br>0.47MF<br>0.47MF | 10%<br>10%<br>20%<br>20%<br>20% | 200V<br>100V<br>25V<br>50V<br>50V    | C802<br>C803<br>C804<br>C805<br>C806      | 1-101-361-00<br>1-102-976-00<br>1-126-233-11<br>1-102-125-00<br>1-101-884-00 | CERAMIC<br>CERAMIC<br>ELECT  | 150PF<br>180PF<br>22MF<br>0.0047MF<br>56PF     | 5%<br>5%<br>20%<br>10%<br>5%    | 50V<br>50V<br>50V<br>50V<br>50V  |
| C529<br>C530<br>C531<br>C532<br>C533 | 1-126-233-11<br>1-123-875-11<br>1-131-351-00<br>1-123-948-00<br>1-136-111-00 | ELECT<br>ELECT<br>TANTALUM<br>ELECT<br>FILM     | 22MF<br>10MF<br>4.7MF<br>22MF<br>1MF           | 20%<br>20%<br>10%<br>20%<br>5%  | 50V<br>50V<br>35V<br>250V<br>200V    | C807<br>C808<br>C809                      | 1-130-736-11<br>1-124-120-11<br>1-101-004-00<br>1-108-620-11<br>1-124-927-11 | FILM<br>ELECT<br>CERAMIC   | 0.01MF<br>220MF<br>0.01MF<br>0.0033MF<br>4.7MF | 5%<br>20%<br>10%<br>20%         | 50V<br>25V<br>50V<br>100V<br>50V |
| C534<br>C535<br>C536<br>C537<br>C538 | 1-106-399-00<br>1-123-946-00<br>1-136-111-00<br>1-102-002-00<br>1-108-626-11 | MYLAR<br>ELECT<br>FILM<br>CERAMIC<br>MYLAR      | 0.22MF<br>4.7MF<br>1MF<br>680PF<br>0.01MF      | 10%<br>20%<br>5%<br>10%<br>10%  | 200V<br>250V<br>200V<br>500V<br>100V | C1001<br>C1002<br>C1003<br>C1004<br>C1005 | 1-124-478-11<br>1-123-875-11<br>1-102-125-00<br>1-124-464-11<br>1-123-875-11 | ELECT<br>ELECT   | 100MF<br>10MF<br>0.0047MF<br>0.22MF<br>10MF    | 20%<br>20%<br>10%<br>20%<br>20% | 25V<br>50V<br>50V<br>50V<br>50V  |
| C539<br>C540<br>C541<br>C542<br>C543 | 1-108-626-11<br>1-106-347-00<br>1-124-045-00<br>1-123-875-11<br>1-124-927-11 | MYLAR<br>MYLAR<br>ELECT<br>ELECT<br>ELECT       | 0.01MF<br>0.0015MF<br>4.7MF<br>10MF<br>4.7MF   | 10%<br>10%<br>20%<br>20%<br>20% | 100V<br>100V<br>50V<br>50V<br>50V    | C1006<br>C1007<br>C1008<br>C1009<br>C1010 | 1-123-875-11<br>1-108-634-11<br>1-124-478-11<br>1-124-480-11<br>1-124-478-11 | ELECT<br>ELECT<br>ELECT  | 10MF<br>0.047MF<br>100MF<br>470MF<br>100MF     | 20%<br>10%<br>20%<br>20%<br>20% | 50V<br>100V<br>25V<br>25V<br>25V |
| C544<br>C545<br>C546<br>C547<br>C548 | 1-124-190-00<br>1-106-371-00<br>1-102-030-00<br>1-124-342-00<br>1-102-030-00 | ELECT<br>MYLAR<br>CERAMIC<br>ELECT<br>CERAMIC   | 680MF<br>0.015MF<br>330PF<br>3.3MF<br>330PF    | 10%<br>10%<br>10%<br>20%<br>10% | 25V<br>200V<br>500V<br>160V<br>500V  | C1012                                     | 1-124-477-11<br>1-124-120-11<br>1-124-478-11                                 | ELECT  | 47MF<br>220MF<br>100MF                         | 20%<br>20%<br>20%               | 25V<br>25V<br>25V                |
| C549<br>C550<br>C551<br>C552<br>C553 | 1-123-875-11<br>1-102-244-00<br>1-124-360-00<br>1-124-499-11<br>1-108-626-11 | ELECT<br>CERAMIC<br>ELECT<br>ELECT<br>MYLAR     | 10MF<br>220PF<br>1000MF<br>1MF<br>0.01MF       | 20%<br>10%<br>20%<br>20%<br>10% | 50V<br>500V<br>16V<br>50V<br>100V    | D302<br>D303<br>D304<br>D305              | <pre></pre>  | DIODE 188119   | )<br>)   |                                 |                                  |
| C554<br>C555<br>C556<br>C557<br>C558 | 1-124-499-11<br>1-108-633-11<br>1-136-173-00<br>1-124-902-00<br>1-131-356-00 | ELECT<br>MYLAR<br>FILM<br>ELECT<br>TANTALUM     | 1MF<br>0.039MF<br>0.47MF<br>0.47MF<br>3.3MF    | 20%<br>10%<br>5%<br>20%<br>10%  | 50V<br>100V<br>50V<br>50V<br>25V     | D306<br>D307<br>D308<br>D309<br>D311      | 8-719-911-19<br>8-719-911-19<br>8-719-911-19<br>8-719-911-19<br>8-719-911-19 |  | )<br>)   |                                 |                                  |
| C559<br>C560<br>C561<br>C562<br>C563 | 1-123-875-11<br>1-136-161-00<br>1-102-973-00<br>1-130-471-00<br>1-123-875-11 | FILM<br>CERAMIC                                 | 10MF<br>0.047MF<br>100PF<br>0.001MF<br>10MF    | 20%<br>5%<br>5%<br>5%<br>20%    | 50V<br>50V<br>50V<br>50V<br>50V      | D312<br>D313<br>D314<br>D400<br>D401      | 8-719-911-19<br>8-719-911-19   | DIODE 188119 DIODE 188119  | )<br>)<br>S-L3                                 |                                 |                                  |
| C564<br>C565<br>C566<br>C567<br>C568 | 1-102-978-00<br>1-124-478-11<br>1-124-499-11<br>1-123-875-11<br>1-108-614-11 | CERAMIC<br>ELECT<br>ELECT<br>ELECT<br>MYLAR     | 220PF<br>100MF<br>1MF<br>10MF<br>0.001MF       | 5%<br>20%<br>20%<br>20%<br>10%  | 50V<br>25V<br>50V<br>50V<br>100V     | D402<br>D403<br>D404<br>D405<br>D501      | 8-719-120-27<br>8-719-109-93<br>8-719-911-19<br>8-719-911-19<br>8-719-911-19 | DIODE RD4.3E<br>DIODE RD6.2E<br>DIODE ISS119<br>DIODE ISS119<br>DIODE ISS119 | ES-B2<br>)<br>)                                |                                 |                                  |
| C569<br>C570<br>C571<br>C572<br>C573 | 1-130-736-11<br>1-123-875-11<br>1-126-233-11<br>1-124-499-11<br>1-123-875-11 | FILM<br>ELECT<br>ELECT<br>ELECT<br>ELECT        | 0.01MF<br>10MF<br>22MF<br>1MF<br>10MF          | 5%<br>20%<br>20%<br>20%<br>20%  | 50V<br>50V<br>25V<br>50V<br>50V      | D502<br>D503<br>D504<br>D505<br>D506      | 8-719-971-20<br>8-719-971-20<br>8-719-901-58<br>8-719-901-58<br>8-719-901-19 | DIODE ERC38-<br>DIODE ERC38-<br>DIODE RGP15.<br>DIODE RGP15.<br>DIODE V11N   | -06<br>J                                       |                                 |                                  |
| C574<br>C575<br>C576<br>C577<br>C578 | 1-124-478-11<br>1-102-978-00<br>1-161-021-11<br>1-123-875-11<br>1-124-477-11 | ELECT<br>CERAMIC<br>CERAMIC<br>ELECT<br>ELECT   | 100MF<br>220PF<br>0.047MF<br>10MF<br>47MF      | 20%<br>5%<br>10%<br>20%<br>20%  | 25V<br>50V<br>25V<br>50V<br>25V      | D507<br>D508<br>D509<br>D510<br>D511      | 8-719-945-80<br>8-719-928-08<br>8-719-100-35<br>8-719-190-00<br>8-719-200-02 | DIODE ERCO6-<br>DIODE ERD28-<br>DIODE RD5.6F<br>DIODE RD24E-<br>DIODE 10E2   | -08S<br>3-B2                                   |                                 |                                  |
| C579<br>C580<br>C581<br>C583         | 1-124-477-11<br>1-124-499-11<br>1-124-478-11<br>1-126-233-11                 | ELECT<br>ELECT<br>ELECT<br>ELECT                | 47MF<br>1MF<br>100MF<br>22MF                   | 20%<br>20%<br>20%<br>20%        | 25V<br>50V<br>25V<br>50V             | D512<br>D513<br>D514                      | 8-719-200-02<br>8-719-200-02<br>8-719-911-19<br>8-719-300-76                 | DIODE 10E2<br>DIODE 10E2<br>DIODE 1SS119<br>DIODE RH-1Z                      | )  |                                 | •                                |





| REF.NO. PART NO.  |  | REF.NO. PART NO.  | DESCRIPTION   | REMARK |
|---|--|---|---|--------|
| D515         8-719-300-76           D516         8-719-200-02           D517         8-719-911-19           D518         8-719-200-02           D519         8-719-911-19 | DIODE RH-1Z<br>DIODE 10E2<br>DIODE 1SS119<br>DIODE 10E2<br>DIODE 1SS119      | L503 1-410-666-31<br>L504 1-407-365-00<br>L505 1-407-365-00<br>L506 1-408-238-00<br>L507 1-459-155-00   | INDUCTOR 18UH COIL, CHOKE COIL, CHOKE INDUCTOR 3.9MMH COIL (WITH CORE) 45UH   |        |
| 0520         8-719-911-19           0521         8-719-911-19           0522         8-719-911-19           0523         8-719-911-19           0524         8-719-911-19 | DIODE 1SS119<br>DIODE 1SS119<br>DIODE 1SS119<br>DIODE 1SS119<br>DIODE 1SS119 | L508 A.1-459-496-12<br>L509 1-459-106-00<br>L510 1-459-075-00<br>L511 1-459-059-00<br>L512 1-408-247-00 | COIL, FERRITE (HLC) COIL, DUST CORE COIL, DYNAMIC CONVERSION CHOKE COIL, DUST CORE INDUCTOR 33MMH   |        |
| 0526     8-719-911-19       0527     8-719-911-19       0528     8-719-911-19       0529     8-719-911-19       0530     8-719-901-83                                     | DIODE 1SS119<br>DIODE 1SS119<br>DIODE 1SS119<br>DIODE 1SS119<br>DIODE 1SS119 | L513 1-459-104-00<br>L514 1-410-686-11<br>L515 1-410-510-11<br>L801 1-410-470-11<br>L802 1-410-089-21   | COIL, DUST CORE INDUCTOR 1MMH INDUCTOR 12UH INDUCTOR 10UH INDUCTOR 15MMH  |        |
| D531 8-719-911-19<br>D801 8-719-911-19<br>D802 8-719-911-19   | DIODE 1SS119<br>DIODE 1SS119<br>DIODE 1SS119                                 | <neo< td=""><td>ON LAMP&gt;</td><td></td></neo<>  | ON LAMP>  |        |
| D1001 8-719-911-19<br>D1002 8-719-911-19  | DIODE 1SS119<br>DIODE 1SS119   | NL501 1-519-108-XX  | LAMP, NEON  |        |
| D1003 8-719-911-19<br>D1010 8-719-120-64<br>D1011 8-719-110-08  | DIODE 1SS119<br>DIODE RD5.6ES-L1<br>DIODE RD8.2ES-B2                         | <tra< td=""><td>NSISTOR&gt;</td><td></td></tra<>  | NSISTOR>  |        |
| D1012 8-719-911-55<br>D1013 8-719-110-37<br>D1014 8-719-936-56  | DIODE ND13ES-B3  | Q300 8-729-119-76<br>Q301 8-729-119-78<br>Q302 8-729-119-78<br>Q303 8-729-119-78<br>Q304 8-729-119-78   | TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE |        |
| <dei< td=""><td>LAY LINE&gt;</td><td>Q305 8-729-119-78<br/>Q306 8-729-119-78</td><td>TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE</td><td></td></dei<>                   | LAY LINE>  | Q305 8-729-119-78<br>Q306 8-729-119-78  | TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE   |        |
| DL301 1-415-633-11  | DELAY LINE, Y  | 1307 8-729-119-76<br>10308 8-729-119-78<br>10309 8-729-119-78   | TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE  |        |
| <10   |  | Q310 8-729-119-78   | TRANSISTOR 2SC2785-HFE  |        |
| 1C301 8-759-204-21<br>1C302 1-808-627-11<br>1C303 8-759-710-31<br>1C304 1-235-534-11<br>1C305 8-749-920-72  | ACC BLOCK ACC-1<br>IC NJM2243S .<br>CONTROL MODULE, PICTURE                  | Q311 8-729-900-89<br>Q312 8-729-119-78<br>Q313 8-729-119-78<br>Q314 8-729-900-65                        | TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES   |        |
| 1C306 8-759-420-08<br>1C307 1-808-629-11<br>1C308 1-808-626-11<br>1C309 8-759-240-52<br>1C311 8-759-800-81  | MODULE, BLUE ONLY BOM-1<br>MODULE, GAIN/BIAS GBM-1<br>IC TC4052BP            | Q315  | TRANSISTOR DTC144ES   |        |
| 10312 8-759-800-81<br>10401 8-752-030-31<br>10501 8-759-100-60<br>10502 8-759-145-58  | IC &A7016 IC CXA1024S IC UPC1377C IC UPC4558C                                | Q320  | TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ES TRANSISTOR DTC144ES TRANSISTOR 2SA1175-HFE                              |        |
| 10503 8-749-920-74<br>10504 8-759-345-38<br>10505 8-759-700-06<br>101001 8-759-420-04   | IC HD14538BP<br>IC NJM7812B  | Q325 8-729-119-78<br>Q326 8-729-119-78<br>Q327 8-729-119-78<br>Q328 8-729-119-76<br>Q329 8-729-119-78   | TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE                        |        |
| <00   | IL>  | Q330 8-729-119-78<br>Q331 8-729-119-76  | TRANSISTOR 2SA1175-HFE  |        |
| 1.300 1-410-470-11<br>1.301 1-410-470-11<br>1.302 1-410-470-11  | INDUCTOR 10UH<br>INDUCTOR 10UH   | Q332 8-729-119-78<br>Q333 8-729-119-78<br>Q334 8-729-119-76   | TRANSISTOR 2SC2785-HFE  |        |
| 1.303 1-410-471-11<br>1.304 1-408-406-00  | INDUCTOR 5.6UH   | Q335 8-729-119-76<br>Q336 8-729-119-76  | TRANSISTOR 2SA1175-HFE  |        |
| 1.306 1-410-470-11<br>1.307 1-408-406-00<br>1.495 1-421-013-00  | INDUCTOR 5.6UH<br>COIL, (HOLIZONTAL CHOKE) 25UH                              | Q337 8-729-119-78<br>Q338 8-729-900-89<br>Q400 8-729-177-33   | TRANSISTOR DTC144ES   |        |
| 1.501 1-459-155-00<br>1.502 1-410-671-31  | COIL (WITH CORE) 45UH  | !   | TRANSISTOR DTC124ES   |        |

## PVM-1440QM/1442QM/1444QM



| REF.NO. PART NO.   | DESCRIPTION   | REMARK | REF.NO.                              | PART NO.   | DESCRIPTION                                    |                                      |                            |                                      | REMARK |
|--|---|--------|--------------------------------------|--|--|--------------------------------------|----------------------------|--------------------------------------|--------|
| Q402 8-729-900-36<br>Q403 8-729-119-76<br>Q404 8-729-119-78<br>Q405 8-729-119-78<br>Q406 8-729-119-78  | TRANSISTOR DTC124ES TRANSISTOR ZSC1785-HFE TRANSISTOR ZSC2785-HFE TRANSISTOR DTC144ES TRANSISTOR DTC144ES TRANSISTOR ZSC2785-HFE TRANSISTOR ZSC2785-HFE TRANSISTOR ZSC2785-HFE TRANSISTOR DTC124ES TRANSISTOR ZSC2785-HFE TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR ZSC2785-HFE TRANSISTOR ZSC2785-HFE TRANSISTOR ZSC2785-HFE TRANSISTOR DTC124ES TRANSISTOR ZSC2785-HFE TRANSISTOR ZSC2785-HFE TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR ZSC2785-HFE TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR ZSC2785-HFE |        | R300<br>R301                         | <res 1-247-721-11="" 1-249-405-11="" 1-249-421-11<="" 1-249-426-11="" td=""><td>ISTOR&gt;</td><td>100<br/>100</td><td>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></res> | ISTOR>   | 100<br>100                           | 5%<br>5%                   | 1/4W<br>1/4W<br>1/4W                 |        |
| Q407 8-729-119-78<br>Q408 8-729-119-78<br>Q409 8-729-119-78<br>Q410 8-729-900-89<br>Q411 8-729-900-89  | TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR DTC144ES  |        | R304<br>R305<br>R306                 | 1-249-426-11<br>1-249-421-11<br>1-249-421-11<br>1-249-405-11   |  |                                      |                            | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| Q412 8-729-119-76<br>Q413 8-729-119-78<br>Q414 8-729-119-78<br>Q415 8-729-900-36   | TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR DTC124ES  |        | R307<br>R308<br>R309                 | 1-249-429-11<br>1-249-405-11<br>1-247-887-00<br>1-249-429-11<br>1-249-405-11<br>1-247-887-00   |  |                                      |                            | 1/4W<br>1/4W<br>1/4W                 |        |
| 0416 8-729-900-36<br>0501 8-729-800-35<br>0502 8-729-119-80<br>0503 8-729-119-78   | TRANSISTOR DTC124ES  TRANSISTOR 2SD1397-CA TRANSISTOR 2SC2688-K TRANSISTOR 2SC2785-HFE  |        | R311<br>R312<br>R313<br>R314         | 1-247-887-00<br>1-249-435-11<br>1-249-431-11<br>1-249-405-11<br>1-249-405-11   |  |                                      |                            | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| 0504 8-729-119-76<br>0505 8-729-309-08<br>0506 8-729-119-78<br>0507 8-729-313-42   | TRANSISTUR 2SA1175-HFE TRANSISTOR 2SC1890A  TRANSISTOR 2SC2785-HFE TRANSISTOR 2SD1134-C TRANSISTOR 2SD1134-C TRANSISTOR 2SC2785-HFE   |        | R316<br>R317<br>R318<br>R319         | 1-249-413-11<br>1-249-414-11<br>1-249-422-11<br>1-249-416-11   | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 470<br>470<br>560<br>2.7K<br>820     | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| 0508 8-729-119-78<br>0509 8-729-195-82<br>0510 8-729-122-03<br>0511 8-729-169-02<br>0512 8-729-119-76  | TRANSISTOR 25C2958-L TRANSISTOR 25C2958-L TRANSISTOR 25A1220A-Q TRANSISTOR 25C2690A-Q TRANSISTOR 25A1175-HFF  |        | R320<br>R321<br>R322<br>R323<br>R324 | 1-249-415-11<br>1-249-411-11<br>1-249-409-11<br>1-249-409-11   | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 680<br>330<br>220<br>220<br>1K       | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| 4513 8-729-900-63<br>4514 8-729-900-36<br>4515 8-729-900-36<br>4516 8-729-119-76   | TRANSISTOR DTA124ES TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR 2SA1175-HFE  |        | R325<br>R326<br>R327<br>R328         | 1-249-405-11<br>1-249-409-11<br>1-249-417-11<br>1-249-434-11<br>1-249-433-11   | CARBON<br>CARBON<br>CARBON<br>CARBON           | 100<br>220<br>1K<br>27K              | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| 9517 8-729-119-78<br>9518 8-729-119-78<br>9519 8-729-900-36<br>9520 8-729-900-63   | TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR DTC124ES TRANSISTOR DTA124ES   |        | R329<br>R330<br>R331<br>R332         | 1-249-433-11<br>1-249-433-11<br>1-219-433-11<br>1-249-405-11<br>1-249-435-11<br>1-249-432-11   | CARBON<br>CARBON<br>CARBON<br>CARBON           | 22K<br>22K<br>22K<br>100             | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| Q521     8-729-119-78       Q522     8-729-119-78       Q523     8-729-900-36       Q524     8-729-900-63       Q525     8-729-900-36  | TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR DTC124ES TRANSISTOR DTA124ES TRANSISTOR DTC124ES   |        | R333<br>R334<br>R335<br>R336         | 1-249-435-11<br>1-249-432-11<br>1-249-417-11<br>1-249-410-11<br>1-249-421-11<br>1-249-405-11   | CARBON  CARBON  CARBON  CARBON                 | 18K<br>18K<br>100<br>1K              | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| Q526 8-729-119-76<br>Q528 8-729-119-78<br>Q529 8-729-119-78<br>Q530 8-729-119-78<br>Q531 8-729-119-78  | TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE  |        | R338<br>R339<br>R340<br>R341         | 1-249-421-11<br>1-249-405-11<br>1-249-434-11<br>1-249-434-11   |  |                                      |                            | 1/4W<br>1/4W                         |        |
| 9532 8-729-119-76<br>9533 8-729-119-76<br>9534 8-729-119-76<br>9550 8-729-119-78   | TRANSISTOR 2SA1175-HFE  |        | R342<br>R343<br>R344<br>R345         | 1-249-418-11<br>1-249-440-11<br>1-249-428-11<br>1-249-416-11   | CARBON<br>CARBON<br>CARBON<br>CARBON           | 1.2K<br>82K<br>8.2K<br>820           | 5%<br>5%                   | 1/4W<br>1/4W<br>1/4W                 |        |
| U551     8-729-119-78       U801     8-729-119-78       U802     8-729-119-76       U803     8-729-119-78  | TRANSISTOR 2SC2785-HFE  |        | R346<br>R347<br>R348<br>R349         | 1-249-416-11<br>1-249-421-11<br>1-249-421-11<br>1-249-417-11   |  | 820<br>2.2K<br>2.2K<br>1K            | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| \( \text{\ 4804} \) \( 8-729-119-78 \) \( \text{\ 4805} \) \( 8-729-119-76 \) \( \text{\ 4806} \) \( 8-729-900-36 \) \( \text{\ 4807} \) \( 8-729-119-78 \) \( \text{\ 4806} \) \( 8-729-119-78 \) \ | TRANSISTOR DTC124ES TRANSISTOR 2SC2785-HFE  |        | R350<br>R351<br>R352<br>R353<br>R354 | 1-249-425-11<br>1-249-421-11<br>1-247-891-00<br>1-249-428-11<br>1-249-424-11   | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 4.7K<br>2.2K<br>330K<br>8.2K<br>3.9K | 5%                         | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| Q1001 8-729-119-76<br>Q1002 8-729-119-76<br>Q1003 8-729-177-42<br>Q1004 8-729-177-42   | TRANSISTOR 2SA1175-HFE TRANSISTOR 2SD774-3 TRANSISTOR 2SD774-3  |        | R355<br>R356<br>R357<br>R358         | 1-249-434-11<br>1-249-437-11<br>1-249-437-11<br>1-249-433-11   | CARBON<br>CARBON<br>CARBON<br>CARBON           | 27K<br>47K<br>47K<br>22K             | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| 41005 8-729-122-03<br>41006 8-729-119-78   | TRANSISTOR 2SA1220A-P<br>TRANSISTOR 2SC2785-HFE   |        | R359<br>R360                         | 1-249-417-11<br>1-249-413-11   | CARBON<br>CARBON                               | 1 K<br>470                           | 5%<br>5%                   | 1/4W<br>1/4W                         |        |



| REF.NO.                              | PART NO.   | DESCRIPTION                                    |                                  |                            |                                      | REMARK | REF.NO.                                      | PART NO.   | DESCRIPTION                                      |  |                            |  | REMARK |
|--------------------------------------|--|--|----------------------------------|----------------------------|--------------------------------------|--------|--|--|--|--|----------------------------|--|--------|
| R361<br>R362<br>R363<br>R364<br>R365 | 1-249-410-11<br>1-249-432-11<br>1-249-417-11                                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 100<br>270<br>18K<br>1K<br>18K   | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R425<br>R426<br>R427<br>R428<br>R428<br>R429 | 1-249-437-11<br>1-249-434-11<br>1-249-429-11<br>1-249-425-11<br>1-249-405-11                 | CARBON CARBON CARBON CARBON CARBON               | 47K<br>27K<br>10K<br>4.7K<br>100             | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| R366<br>R367<br>R368<br>R369<br>R370 | 1-249-405-11<br>1-249-405-11   | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 47K<br>470<br>100<br>100<br>1K   | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R430<br>R431<br>R432<br>R433<br>R434         | 1-247-711-11<br>1-249-416-11<br>1-249-414-11<br>1-249-433-11<br>1-249-425-11                 | CARBON  CARBON  CARBON  CARBON  CARBON  CARBON   | 820<br>560<br>22K<br>4.7K                    | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| R371<br>R372<br>R373<br>R374<br>R375 | 1-249-432-11<br>1-249-465-11<br>1-249-436-11<br>1-249-432-11<br>1-249-405-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 18K<br>47K<br>39K<br>18K<br>100  | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R435<br>R436<br>R437<br>R438<br>R439         | 1-249-405-11<br>1-249-423-11<br>1-249-411-11<br>1-249-405-11<br>1-249-417-11                 | CARBON CARBON CARBON CARBON CARBON               | 3.3K<br>330<br>100<br>1K                     | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W                 |        |
| R376<br>R377<br>R378<br>R379<br>R380 | 1-249-417-11<br>1-249-428-11<br>1-249-433-11<br>1-249-430-11<br>1-249-405-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 1K<br>8.2K<br>22K<br>12K<br>100  | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R440<br>R441<br>R442<br>R443<br>R444         | 1-249-421-11<br>1-247-700-11<br>1-249-421-11<br>1-249-419-11                                 | CARBON CARBON CARBON CARBON CARBON               | 4.7K<br>2.2K<br>100<br>2.2K<br>1.5K          | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| R381<br>R382<br>R383<br>R384<br>R385 | 1-249-431-11<br>1-249-408-11<br>1-249-413-11<br>1-249-413-11<br>1-249-411-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 15K<br>180<br>470<br>470<br>330  | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R445<br>R446<br>R447<br>R448<br>R449<br>R450 | 1-249-417-11<br>1-249-422-11<br>1-249-429-11<br>1-247-883-00<br>1-249-462-11<br>1-249-409-11 | CARBON CARBON CARBON CARBON CARBON CARBON CARBON | 1 K<br>2.7 K<br>10 K<br>150 K<br>22 K<br>220 | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| R386<br>R387<br>R388<br>R389<br>R390 | 1-249-415-11<br>1-249-405-11<br>1-249-423-11<br>1-249-417-11<br>1-249-433-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 100<br>3.3K<br>1K<br>22K         | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R451<br>R452<br>R453<br>R454<br>R455         | 1-247-704-11<br>1-249-409-11<br>1-247-704-11<br>1-249-417-11<br>1-249-409-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON   | 220<br>220<br>220<br>220<br>1K<br>220        | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| R391<br>R392<br>R393<br>R394<br>R395 | 1-249-433-11<br>1-249-403-11<br>1-249-409-11<br>1-249-417-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 22K<br>68<br>220<br>1K           | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R456<br>R457<br>R458<br>R459<br>R460         | 1-249-409-11<br>1-249-409-11<br>1-249-433-11<br>1-249-425-11<br>1-249-425-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON   | 220<br>220<br>22K<br>4.7K<br>4.7K            | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| R396<br>R397<br>R398<br>R399<br>R400 | 1-249-433-11<br>1-249-405-11<br>1-249-405-11<br>1-247-718-11<br>1-249-413-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 100<br>100<br>2.7K<br>470        | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R461<br>R462<br>R464<br>R465                 | 1-249-433-11<br>1-249-386-11<br>1-259-881-11<br>1-249-465-11                                 | CARBON   | 22K<br>2.7<br>2.7M<br>47K                    | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W                 | F      |
| R401<br>R402<br>R403<br>R404<br>R405 | 1-249-416-11<br>1-249-411-11<br>1-249-405-11<br>1-249-422-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 820<br>330<br>100<br>2.7K        | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R466<br>R467<br>R468<br>R469<br>R470         | 1-249-421-11<br>1-249-431-11<br>1-249-431-11<br>1-247-897-11<br>1-249-437-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON   | 2.2K<br>15K<br>15K<br>560K<br>47K            | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W         |        |
| R407<br>R408<br>R409<br>R410         | 1-249-413-11<br>1-249-416-11<br>1-249-411-11<br>1-249-405-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 470<br>820<br>330<br>100<br>2.7K | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        | R471<br>R472                                 | 1-249-429-11<br>1-249-417-11   | CARBON<br>CARBON                                 | 10K<br>1K                                    | 5%<br>5%                   | 1/4W<br>1/4W                                 |        |
| R412<br>R413<br>R414<br>R415         | 1-249-419-11<br>1-249-417-11<br>1-249-429-11<br>1-249-417-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 1.5K<br>1K<br>10K<br>1K<br>1K    | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |  |  |  |  |                            |  |        |
| R417<br>R418<br>R419<br>R420         | 1-249-421-11<br>1-249-439-11<br>1-249-433-11<br>1-249-426-11<br>1-249-437-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 2.2K<br>68K<br>22K<br>5.6K       | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        |  |  |  |  |                            |  |        |
| R422<br>R423<br>R424                 | 1-249-437-11<br>1-249-405-11<br>1-249-437-11                                 | CARBON<br>CARBON<br>CARBON                     | 47K<br>100<br>47K                | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W                 |        |  |  |  |  |                            |  |        |

## • \* : Selected to yield optimum performance.

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| REF.NO.  | PART NO.   | DESCRIPTION                                    |                                    |                            |                                      | REMARK | REF.NO.                                      | PART NO.   | DESCRIPTION   |   |                                  |  | REMARK      |
|--|--|--|------------------------------------|----------------------------|--------------------------------------|--------|--|--|---|---|----------------------------------|--|-------------|
| R473<br>R474<br>R475<br>R476<br>R477           | 1-249-429-11<br>1-249-417-11<br>1-249-401-11<br>1-249-417-11                 |  | 47K<br>10K<br>1K<br>47<br>1K       | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R523<br>R524<br>R525                         | 1-215-445-00<br>1-247-887-00<br>1-215-439-00<br>1-249-469-11<br>1-215-445-00                 | CARBON<br>METAL<br>CARBON<br>METAL                  | 220K<br>5.6K<br>100K<br>10K             | 5%<br>1%<br>5%<br>1%             | 1/6W<br>1/6W<br>1/6W<br>1/6W           |             |
| R478<br>R479<br>R480<br>R481<br>R482           | 1-249-401-11<br>1-249-433-11<br>1-249-433-11                                 |  | 47<br>1 K<br>47<br>22 K<br>22 K    |                            | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R526<br>R527<br>R528<br>R529<br>R530<br>R531 | 1-215-442-00<br>1-249-417-11<br>1-215-877-11<br>1-216-360-11<br>1-216-427-00<br>1-247-756-11 | CARBON<br>METAL OXIDE<br>METAL OXIDE<br>METAL OXIDE | 7.5K<br>1K<br>22K<br>8.2<br>120<br>2.2K | 5%<br>5%<br>5%<br>5%<br>5%       | 1/6W<br>1/4W<br>1W<br>1W<br>1W<br>1/2W | F<br>F<br>F |
| R483<br>R484<br>R485<br>R486<br>R487           |  | CARBON<br>CARBON<br>CARBON<br>CARBON           | 22K<br>330K<br>330K<br>22K<br>22K  | 5%<br>5%                   | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |        | R532<br>R533<br>R534<br>R535<br>R536         | 1-249-436-11<br>1-249-422-11<br>1-247-719-11<br>1-215-441-00<br>1-249-433-11                 | CARBON<br>CARBON                                    |   | 5%<br>5%                         | 1/4W<br>1/4W<br>1/4W<br>1/6W<br>1/4W   |             |
| R489<br>R490<br>R491<br>R492                   | 1-249-421-11<br>1-247-895-00<br>1-249-420-11<br>1-249-417-11<br>1-249-441-11 | CARBON<br>CARBON<br>CARBON<br>CARBON           | 1.2K<br>2.2K<br>470K<br>1.8K<br>1K | 5%<br>5%                   | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        | R537<br>R538<br>R539<br>R540<br>R541         | 1-249-417-11<br>1-249-428-11<br>1-247-883-00<br>1-249-466-11<br>1-247-883-00                 | CARBON<br>CARBON<br>CARBON<br>CARBON                | 1K<br>8.2K<br>150K<br>56K<br>150K       |                                  | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W   | F           |
| R494<br>R495<br>R496<br>R497                   | 1-249-413-11<br>1-249-433-11<br>1-249-437-11<br>1-249-437-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 22K                                |                            | 1/4W<br>1/4W<br>1/4W<br>1/4W         |        | R542<br>R543<br>R544<br>R545<br>R546         | 1-249-438-11<br>1-247-903-00<br>1-215-453-00<br>1-249-417-11<br>1-249-411-11                 | CARBON<br>METAL<br>CARBON                           | 56K<br>1M<br>22K<br>1K<br>330           | 5%<br>5%<br>1%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/6W<br>1/4W<br>1/4W   |             |
| R499<br>* R500<br>* R500<br>* R500<br>* R500   | 1-249-433-11<br>1-215-451-00<br>1-215-452-00<br>1-215-453-00<br>1-215-454-00 | CARBON<br>METAL<br>METAL<br>METAL<br>METAL     | 22K<br>18K<br>20K<br>22K           | 5%<br>5%<br>1%<br>1%<br>1% | 1/4W<br>1/6W<br>1/6W<br>1/6W         |        | R547<br>R548<br>R549<br>R550<br>R551         | 1-249-414-11<br>1-249-415-11<br>1-215-473-00<br>1-249-433-11<br>1-247-688-11                 | CARBON<br>METAL<br>CARBON                           | 560<br>680<br>150K<br>22K<br>10         | 5%<br>5%<br>1%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/6W<br>1/4W<br>1/4W   | F           |
| * R500<br>* R500<br>* R500<br>* R500<br>* R500 | 1-215-455-00<br>1-215-456-00<br>1-215-457-00<br>1-215-458-00<br>1-215-459-00 | METAL<br>METAL<br>METAL<br>METAL<br>METAL      | 27K<br>30K<br>33K<br>36K<br>36K    | 1 %<br>1 %<br>1 %<br>1 %   | 1/6W<br>1/6W<br>1/6W<br>1/6W         |        | R552<br>R553<br>R554<br>R555<br>R556         | 1-249-425-11<br>1-249-429-11<br>1-249-460-11<br>1-249-426-11<br>1-247-707-11                 | CARBON<br>CARBON<br>CARBON                          | 4.7K<br>10K<br>15K<br>5.6K<br>390       | 5%<br>5%                         | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W   |             |
| * R500<br>* R500<br>* R500<br>* R500<br>* R500 | 1-215-460-00<br>1-215-461-00<br>1-215-462-00<br>1-215-463-00                 | METAL<br>METAL<br>METAL<br>METAL               | 43K<br>47K<br>51K<br>56K           | 1 %<br>1 %<br>1 %<br>1 %   | 1/6W<br>1/6W<br>1/6W<br>1/6W         |        | R557<br>R558<br>R559<br>R560<br>R561         | 1-215-463-00<br>1-215-457-00<br>1-215-453-00<br>1-215-479-00<br>1-249-435-11                 | METAL<br>METAL<br>METAL                             | 33K<br>22K                              | 17<br>17<br>17<br>17<br>17<br>57 | 1/6W<br>1/6W<br>1/6W<br>1/6W<br>1/4W   |             |
| * R500<br>* R500<br>* R500<br>R501             | 1-215-465-00<br>1-215-466-00<br>1-215-467-00<br>1-247-711-11<br>1-216-464-11 | METAL<br>CARBON<br>METAL OXIDE                 | 62K<br>68K<br>75K<br>82K<br>680    | 17<br>5%                   | 2W                                   |        | ! R562                                       | 1-249-422-11   | CARBON<br>METAL<br>CARBON                           | 2.7K<br>8.2K<br>10K<br>470<br>1.2       | 5%<br>5%<br>1%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/6W<br>1/4W<br>1W     | F<br>F      |
| R503<br>R504<br>R505<br>R506                   | 1-249-440-11<br>1-249-424-11<br>1-249-440-11<br>1-249-431-11<br>1-249-434-11 | CARBON<br>CARBON<br>CARBON<br>CARBON           | 82K<br>3.9K<br>82K<br>15K          | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W         | c      | R567<br>R568<br>R569<br>R570<br>R571         | 1-216-350-11<br>1-249-401-11<br>1-215-869-11<br>1-247-697-11<br>1-215-867-00                 | CARBON<br>METAL OXIDE<br>CARBON                     | 1.2<br>47<br>1K<br>56<br>470            | 5%<br>5%<br>5%<br>5%<br>5%       | 1W<br>1/4W<br>1W<br>1/4W<br>1W         | F           |
| R508<br>R509<br>R510<br>R511                   | 1-247-723-11<br>1-249-423-11<br>1-215-919-11<br>1-215-447-00<br>1-212-883-00 |  | 6.8K<br>3.3K<br>2.2K<br>12K        | 5%<br>5%<br>1%             | 1/4W<br>1/4W<br>3W<br>1/6W           | F      | R572<br>R573<br>R574<br>R575<br>R576         | 1-216-355-11<br>1-247-746-11<br>1-249-425-11<br>1-247-688-11<br>1-249-440-11                 | CARBON<br>CARBON<br>CARBON                          | 3.3<br>390<br>4.7K<br>10<br>82K         | 5%<br>5%<br>5%<br>5%             | 1W<br>1/2W<br>1/4W<br>1/4W<br>1/4W     | F           |
| R513<br>R514<br>R515<br>R516<br>R517           | 1-249-383-11<br>1-216-367-11<br>1-216-434-11<br>1-214-888-00<br>1-214-763-00 | CARBON METAL OXIDE METAL OXIDE METAL METAL     | 1.5<br>0.68<br>1.8K<br>10K         | 5%<br>1%                   | 1/4W<br>2W<br>1W<br>1/2W             | F<br>F | R577<br>R578<br>R579<br>R580<br>R581         | 1-249-396-11<br>1-249-433-11<br>1-249-433-11<br>1-249-429-11                                 | CARBON<br>CARBON<br>CARBON                          | 18<br>22K<br>22K<br>22K<br>10K          | 5%<br>5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W   | :           |
| R518<br>R519<br>R520                           | 1-214-956-00<br>1-214-917-00<br>1-215-467-00                                 | METAL<br>METAL                                 | 470K<br>150K<br>82K                |                            | 1/4W<br>1/2W<br>1/6W                 |        | R582<br>R583                                 | 1-249-429-11<br>1-249-438-11   |   | 10K<br>56K                              | 5%<br>5%                         | 1/4W<br>1/4W                           |             |



| J                    |  |                            |                      |                            |                      |        |                         |  |                                 |                      |                      |                      |        |
|----------------------|--|----------------------------|----------------------|----------------------------|----------------------|--------|-------------------------|--|---------------------------------|----------------------|----------------------|----------------------|--------|
| REF.NO.              | PART NO.                                     | DESCRIPTION                |                      |                            |                      | REMARK | REF. NO.                | PART NO.                                     | DESCRIPTION                     |                      |                      |                      | REMARK |
| R584<br>R585         | 1-249-433-11                                 | CARBON .                   | 120K<br>22K          | 5%<br>5%<br>1%             | 1/4W<br>1/4W         |        | R851                    | 1-249-439-11                                 | CARBON                          | 68K                  | 5%                   | 1/4W                 |        |
| R586<br>R587<br>R588 | 1-215-449-00<br>1-249-429-11<br>1-247-688-11 | METAL<br>CARBON<br>CARBON  | 15K<br>10K<br>10     | 17<br>57<br>57             | 1/6W<br>1/4W<br>1/4W | F      | R852<br>R853<br>R855    | 1-249-437-11<br>1-247-710-11<br>1-249-414-11 | CARBON<br>CARBON<br>CARBON      | 47K<br>560<br>560    | 5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W |        |
| R589<br>R590         | 1-249-417-11<br>1-249-433-11                 | CARBON<br>CARBON           | 1 K<br>22 K          | 5%<br>5%<br>5%             | 1/4W<br>1/4W         |        | R856<br>R857            | 1-249-429-11<br>1-247-725-11                 | CARBON<br>CARBON                | 10K<br>10K           | 5%<br>5%             | 1/4W<br>1/4W         |        |
| R591<br>R592<br>R593 | 1-249-433-11<br>1-249-417-11<br>1-249-425-11 | CARBON<br>CARBON<br>CARBON | 22K<br>1K<br>4.7K    | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W |        | R858<br>R860<br>R861    | 1-249-433-11<br>1-249-425-11<br>1-249-437-11 | CARBON<br>CARBON<br>CARBON      | 22K<br>4.7K<br>47K   | 5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W |        |
| R594                 | 1-247-719-11                                 | CARBON<br>CARBON           | 3.3K<br>1K<br>4.7K   |                            | 1/4W<br>1/4W         |        | R862<br>R863            | 1-249-425-11<br>1-247-721-11                 | CARBON<br>CARBON                | 4.7K<br>4.7K         | 5%<br>5%<br>5%       | 1/4W<br>1/4W         |        |
| R595<br>R596<br>R597 | 1-249-417-11<br>1-247-721-11<br>1-215-437-00 | CARBON<br>METAL            | 4.7K                 | 5%<br>1%<br>5%             | 1/4W<br>1/6W<br>1/4W | F      | R864<br>R866<br>R867    | 1-247-717-11<br>1-249-426-11<br>1-249-426-11 | CARBON<br>CARBON<br>CARBON      | 2.2K<br>5.6K<br>5.6K | 5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W |        |
| R598<br>R599         | 1-247-725-11                                 | CARBON                     | 10K<br>680           | 5%                         | 1/4W                 | F      | R868<br>R869            | 1-249-420-11<br>1-249-421-11<br>1-249-425-11 | CARBON<br>CARBON                | 2.2K<br>4.7K         | 5%<br>5%<br>5%       | 1/4W<br>1/4W         |        |
| R800<br>R801<br>R802 | 1-215-443-00<br>1-249-440-11<br>1-215-429-00 | METAL<br>CARBON<br>METAL   | 8.2K<br>82K<br>2.2K  | 1%<br>5%<br>1%             | 1/6W<br>1/4W<br>1/6W |        | R870<br>R871            | 1-249-426-11<br>1-249-427-11                 | CARBON<br>CARBON                | 5.6K<br>6.8K         | 5%<br>5%             | 1/4W<br>1/4W         |        |
| R803<br>R804         | 1-249-465-11<br>1-247-726-11                 | CARBON<br>CARBON           | 47K<br>33K           | 5%<br>5%                   | 1/4W<br>1/4W         | F      | R872<br>R873<br>R874    | 1-249-417-11<br>1-249-437-11<br>1-215-437-00 | CARBON<br>CARBON<br>METAL       | 1 K<br>47 K<br>4.7 K | 5%<br>5%<br>1%       | 1/4W<br>1/4W<br>1/6W |        |
| R805<br>R806<br>R807 | 1-249-407-11<br>1-249-415-11<br>1-249-437-11 | CARBON<br>CARBON<br>CARBON | 150<br>680<br>47K    | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W |        | R875<br>R876            | 1-215-453-00<br>1-249-429-11                 | METAL<br>CARBON                 | 22K<br>10K           | 1%<br>5%<br>5%       | 1/6W<br>1/4W         |        |
| R808<br>R809         | 1-249-433-11<br>1-215-471-00                 | CARBON<br>METAL            | 22K<br>120K          | 5%<br>1%                   | 1/4W<br>1/6W         |        | R877<br>R878<br>R879    | 1-249-417-11<br>1-249-429-11<br>1-249-437-11 | CARBON<br>CARBON<br>CARBON      | 1 K<br>1 O K<br>47 K | 5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W |        |
| R810<br>R811<br>R812 | 1-215-467-00<br>1-249-429-11<br>1-249-427-11 | METAL<br>CARBON<br>CARBON  | 82K<br>10K<br>6.8K   | 1%<br>5%                   | 1/6W<br>1/4W<br>1/4W |        | R880<br>R881            | 1-249-417-11<br>1-249-423-11                 | CARBON<br>CARBON                | 1 K<br>3.3 K         | 5%<br>5%             | 1/4W<br>1/4W         |        |
| R813                 | 1-249-405-11                                 | CARBON                     | 100<br>1K            | 5%<br>5%                   | 1/4W<br>1/4W         |        | R883<br>R884<br>R885    | 1-249-409-11<br>1-249-417-11<br>1-249-469-11 | CARBON<br>CARBON<br>CARBON      | 220<br>1 K<br>100 K  | 5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W |        |
| R815<br>R816         | 1-249-409-11<br>1-249-429-11                 | CARBON<br>CARBON<br>CARBON | 220<br>10K<br>120K   | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W |        | R886<br>R887            | 1-247-725-11<br>1-247-704-11                 | CARBON<br>CARBON                | 10K<br>220           | 5%                   | 1/4W<br>1/4W         |        |
| R817<br>R818         | 1-247-881-00<br>1-247-881-00                 | CARBON                     | 120K                 |                            | 1/4W                 |        | R1001<br>R1002          | 1-247-717-11<br>1-249-429-11<br>1-249-405-11 | CARBON<br>CARBON<br>CARBON      | 2.2K<br>10K<br>100   | 5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W |        |
| R819<br>R820<br>R821 | 1-247-903-00<br>1-249-426-11<br>1-247-881-00 | CARBON<br>CARBON<br>CARBON | 1M<br>5.6K<br>120K   | 5%                         | 1/4W<br>1/4W<br>1/4W |        | R1003                   | 1-247-725-11                                 | CARBON                          | 10K                  | 5 <b>%</b>           | 1/4W<br>1/4W         |        |
| R822<br>R823         | 1-249-417-11<br>1-247-696-11                 | CARBON<br>CARBON           | 1 K<br>47            | 5%<br>5%                   | 1/4W<br>1/4W         | F      | R1005<br>R1006<br>R1007 | 1-249-437-11<br>1-249-439-11<br>1-249-433-11 | CARBON<br>CARBON<br>CARBON      | 47K<br>68K<br>22K    | 5%<br>5%<br>5%       | 1/4W<br>1/4W         |        |
| R824<br>R825<br>R826 | 1-249-439-11<br>1-249-437-11<br>1-249-417-11 | CARBON<br>CARBON<br>CARBON | 68K<br>47K<br>1K     | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W |        |                         | 1-249-429-11<br>1-249-415-11                 | CARBON<br>CARBON                | 10K<br>68 <u>0</u>   | 5%<br>5%             | 1/4W<br>1/4W         |        |
| R827<br>R828         | 1-249-417-11<br>1-249-417-11                 | CARBON<br>CARBON           | 1 K<br>1 K           | 5%<br>5%                   | 1/4W<br>1/4W         |        | R1011<br>R1012<br>R1013 | 1-249-455-11<br>1-216-355-11<br>1-249-413-11 | CARBON<br>METAL OXIDE<br>CARBON | 4.7<br>3.3<br>470    | 5%<br>5%<br>5%       | 1/4W<br>1W<br>1/4W   | F      |
| R829<br>R830<br>R831 | 1-249-421-11<br>1-249-435-11<br>1-249-438-11 | CARBON<br>CARBON<br>CARBON | 2.2K<br>33K<br>56K   | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W |        | R1014                   | 1-249-414-11<br>1-215-867-00                 | CARBON<br>METAL OXIDE           | 470                  | 5%                   | 1/4W<br>1W           | F      |
| R832<br>R833         | 1-249-417-11<br>1-249-425-11                 | CARBON<br>CARBON           | 1 K<br>4.7 K         | 5%                         | 1/4W<br>1/4W         |        | R1016<br>R1017<br>R1018 | 1-247-698-11<br>1-249-421-11<br>1-249-437-11 | CARBON<br>CARBON<br>CARBON      | 68<br>2.2K<br>47K    | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W |        |
| R834<br>R835<br>R836 | 1-249-425-11<br>1-247-889-00<br>1-247-897-11 | CARBON<br>CARBON<br>CARBON | 4.7K<br>270K<br>560K | 5%                         | 1/4W<br>1/4W<br>1/4W |        | R1019<br>R1020          | 1-212-857-00<br>1-249-429-11                 | FUSIBLE<br>CARBON               | 10<br>10K            | 5%<br>5%             | 1/4W<br>1/4W         | F      |
| R837<br>R838         | 1-215-469-00<br>1-246-531-00                 | METAL<br>CARBON            | 100K<br>270K         | 1%                         | 1/6W<br>1/4W         |        | R1021<br>R1022<br>R1023 | 1-249-434-11<br>1-249-428-11<br>1-249-428-11 | CARBON<br>CARBON<br>CARBON      | 27K<br>8.2K<br>8.2K  | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W |        |
| R840<br>R842         | 1-247-696-11<br>1-249-409-11<br>1-247-704-11 | CARBON<br>CARBON<br>CARBON | 47<br>220<br>220     | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W |        | R1024                   | 1-247-903-00                                 | CARBON                          | 1M<br>10K            | 5%                   | 1/4W<br>1/4W         |        |
| R843<br>R844<br>R845 | 1-247-704-11<br>1-249-417-11<br>1-247-725-11 | CARBON<br>CARBON           | 1 K<br>1 O K         | 5%<br>5%                   | 1/4W<br>1/4W         |        | R1026<br>R1027<br>R1301 | 1-249-429-11<br>1-215-454-00<br>1-249-429-11 | CARBON<br>METAL<br>CARBON       | 10K<br>24K<br>10K    | 5%<br>5%<br>1%<br>5% | 1/4W<br>1/6W<br>1/4W |        |
| R846<br>R847         | 1-215-439-00<br>1-249-433-11                 | METAL<br>CARBON            | 5.6K<br>22K          | 5%                         | 1/6W<br>1/4W         | *      | R1302                   | 1-247-725-11                                 | CARBON                          | 10K                  | 5%                   | 1/4W                 |        |
| R848<br>R850         | 1-249-433-11<br>1-249-440-11                 | CARBON<br>CARBON           | 22K<br>82K           | 5%<br>5%                   | 1/4W<br>1/4W         |        | R1303                   | 1-249-429-11<br>1-249-405-11                 | CARBON<br>CARBON                | 10K<br>100           | 5%<br>5%             | 1/4W<br>1/4W         |        |

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.





|   | *   |   |   |   |  |   |  |   |   |   |        |
|---|---|---|---|---|--|---|--|---|---|---|--------|
| REF.NO. PART NO.  | DESCRIPTION   | N<br>-  |   | REMARK  | REF.NO.  | PART NO.  | DESCRIPTION  |   |   | REMAR<br>   | ₹K<br> |
| R1306 1-247-70<br>R1307 1-249-42  | 0-11 CARBON<br>1-11 CARBON  | 100 5%<br>2.2K 5%   | 1/4W<br>1/4W                                  |   | . C718   | 1-162-116-00<br>1-162-115-00<br>1-162-116-00  | CERAMIU  | 680PF<br>330PF<br>680PF                   | 10%<br>10%<br>10%   | 2KV   |        |
|   | <variable resist<="" td=""><td>OR&gt;</td><td></td><td></td><td>C721<br/>C722</td><td>1-162-116-00<br/>1-162-116-00</td><td>CERAMIC<br/>CERAMIC</td><td>680PF<br/>680PF</td><td>10%<br/>10%</td><td></td><td></td></variable> | OR>   |   |   | C721<br>C722   | 1-162-116-00<br>1-162-116-00  | CERAMIC<br>CERAMIC   | 680PF<br>680PF                            | 10%<br>10%  |   |        |
| RV003 1-228-99 RV004 1-228-99 RV006 1-228-99 RV006 1-228-99 RV007 1-228-99 RV401 1-228-99 RV501 1-228-99 RV502 1-223-10 RV503 1-228-99 RV504 1-228-99 RV505 1-228-99 RV506 1-228-99 RV507 1-224-21 RV508 1-228-99 RV509 1-228-99 RV510 1-228-99 RV511 1-228-9 RV511 1-228-9 | 98-00 RES, ADJ, (<br>96-00 RES, ADJ, (<br>89-00 RES, ADJ, (<br>95-00 RES, ADJ, (<br>93-00 RES, ADJ, (   | ARBON 4.7K ARBON 4.7K ARBON 10K ARBON 10K ARBON 10K ETAL GLAZE 4. IREWOUND 120 ETAL GLAZE 47 ARBON 1K CARBON 22K CARBON 22K CARBON 470 ETAL GLAZE 2 | 7K<br>K<br>2K<br>7K                           |   | D701<br>D702<br>D703<br>D704<br>D705<br>D706<br>D707<br>D708<br>D709<br>D713<br>D715<br>D716<br>D717 | <pre></pre>   | DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS13 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 | )<br>)<br>)                               |   | •   |        |
| RV514 1-228-9<br>RV550 1-228-9  | 96-00 RES, ADJ,<br>93-00 RES, ADJ,  | CARBON 47K  |   |   | FL701<br>FL702   | 1-236-058-11<br>1-236-058-11  | ENCAPSULATE<br>ENCAPSULATE   | D COMPONENT<br>D COMPONENT<br>D COMPONENT |   |   |        |
|   | <transformer></transformer>   |   |   |   | 1 11105  |   | ANSISTOR>  |   |   |   |        |
| T501 Δ.1-439-3<br>T502 1-437-1  | 95-12 TRANSFORME<br>31-00 TRANSFORME  | R ASSY, FLYBA<br>R, DRIVE   | CK  |   | Q701   | 9-729-119-78  | TRANSISTOR<br>TRANSISTOR   | 2SC2785-HFE                               |   |   |        |
|   | <thermistor></thermistor>   |   |   |   | Q703<br>Q704<br>Q705   | 8-729-119-78  | TRANSISTUR   | 2SU2785-HFE<br>2SA1091                    |   |   |        |
| **********  | 10-00 THERMISTOR  | **************************************  |   |   | Q709<br>Q710   | 8-729-326-11<br>8-729-326-11  | TRANSISTOR<br>TRANSISTOR   | 2SC2611<br>2SC2611<br>2SC2611             |   |   |        |
| + 4-271-6   | 819-11 SOCKET, P!<br>912-01 COVER (MA!<br>913-01 COVER (RE)   | ICTURE TUBE<br>IN), CV VOL<br>AR LID), ÇV VO  | )L  |   | Q711<br>Q712<br>Q713<br>Q714<br>Q715   | 8-729-200-17<br>8-729-200-17<br>8-729-255-12<br>8-729-255-12<br>8-729-255-12                          | TRANSISTOR TRANSISTOR TRANSISTOR   | 2SA1091<br>2SC2551<br>2SC2551             |   |   |        |
| C1 *1-508-  | <pre><connector> 768-00 PIN, CONN</connector></pre>   | ECTOR (5MM PII  | rch) 6P                                       |   | 9716<br>9717   |   | Z TRANSISTOR<br>Z TRANSISTOR   | 2SC2551<br>2SC2551                        |   |   |        |
| C2 ±1-506-  | 371-00 PIN, CONN<br>513-11 PLUG, CON  | ECTUR 2P  |   |   |  | < R   | ESISTOR>   |   |   |   |        |
| C702 1-102-<br>C703 1-102-<br>C704 1-102-<br>C705 1-123-<br>C706 1-102-<br>C707 1-162-  | <pre><capacitor> 115-00 CERAMIC 115-00 CERAMIC 115-00 CERAMIC 121-00 CERAMIC 875-11 ELECT 074-00 CERAMIC 116-00 CERAMIC 116-00 CERAMIC</capacitor></pre>  | 560PF<br>560PF<br>560PF<br>0.0022MF<br>10MF<br>0.001MF<br>680PF<br>0.01MF   | 10%<br>10%<br>10%<br>10%<br>20%<br>10%<br>10% | 50V<br>50V<br>50V<br>50V<br>50V<br>50V<br>2KV<br>630V | R702<br>R704<br>R705<br>R706<br>R707<br>R708<br>R709<br>R711<br>R712                                 | 1-215-408-0<br>1-249-410-1<br>1-249-420-1<br>1-249-420-1<br>1-249-420-1<br>1-249-397-1<br>1-249-397-1 | O METAL 1 CARBON  | 300 1<br>270 5<br>270 5<br>1.8K 5         | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 1/6W<br>1/6W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4 |        |
| C713 1-108-<br>C714 1-102-  | -338-11 FILM<br>-704-11 MYLAR<br>-116-00 CERAMIC<br>-116-00 CERAMIC<br>-116-00 CERAMIC  | 0.1MF<br>0.1MF<br>680PF<br>680PF<br>680PF   | 10%<br>10%<br>10%<br>10%                      | 200V<br>50V<br>50V<br>50V                             | R715<br>R716<br>R717<br>R718   | 5 1-202=818-0<br>6 1-216-486-0<br>7 1-202-818-0   | O SOLID O METAL OXII   | DE 8.2K 5                                 | 10%<br>5%<br>10%<br>5%  | 1/2W<br>3W F<br>1/2W<br>3W F  | •.     |





| REF. NO. PART NO.  | DESCRIPTION   |  |                         |                              | F                        | REMARI | REF.   | NO.                      | PART                                      | NO.                                  | DESCR   | PTION   |                            |                                      |
|--|---|--|-------------------------|------------------------------|--------------------------|--------|--|--------------------------|---|--------------------------------------|---|---|----------------------------|--------------------------------------|
| R719 1-202-818-00<br>R720 1-216-486-00<br>R721 1-216-372-11<br>R722 1-202-848-00<br>R723 1-202-838-00  | METAL OXIDE METAL OXIDE                                     | 1K<br>8.2K<br>1.8<br>680K              | 5%<br>5%<br>10%         | 1/2W<br>3W<br>2W<br>1/2W     | F                        |        | 0170   | າດ ມ                     | R-720                                     | -119-                                | TRANSISTOR  |   |                            |                                      |
| R724 1-202-842-11<br>R725 1-202-719-00<br>R731 1-249-409-11<br>R732 1-249-409-11   | SOLID<br>SOLID<br>CARBON                                    | 100K<br>220K<br>1M<br>220              | 10%<br>10%<br>10%<br>5% | 1/2W<br>1/2W<br>1/2W<br>1/4W |                          | •      | Q170<br>Q170<br>Q170<br>Q170                   | )1 {<br>)2 {<br>)3 {     | 3-729<br>3-729<br>3-729                   | -119-<br>-119-<br>-119-<br>-119-     | 78 TRANSIS<br>78 TRANSIS<br>78 TRANSIS  | TOR 2SC27<br>TOR 2SC27<br>TOR 2SC27<br>TOR 2SC27<br>TOR 2SC27 | 85-HFE<br>85-HFE<br>85-HFE |                                      |
| R733 Î-249-409-11<br>R734 1-249-409-11<br>R735 1-249-409-11<br>R736 1-249-409-11   | CARBON  | 220<br>220<br>220<br>220<br>220<br>220 | 5%<br>5%<br>5%<br>5%    | 1/4W<br>1/4W<br>1/4W<br>1/4W | F                        |        | Q170<br>Q170<br>Q170<br>Q170<br>Q170           | 6 8<br>7 8<br>8 8        | -729<br>-729<br>-729                      | -119-7<br>-900-8<br>-900-8<br>-115-3 | 39 TRANSIS<br>39 TRANSIS<br>30 TRANSIS  | TOR 2SC27<br>TOR DTC14<br>TOR DTC14<br>TOR 2SK10<br>TOR 2SK10 | 4ES<br>4ES<br>54-10        |                                      |
| R737 1-249-405-11<br>R738 1-249-405-11   | CARBON<br>CARBON  | 100<br>100                             | 5%<br>5%                | 1/4W<br>1/4W<br>1/4W         | F                        |        | Q171<br>Q171                                   | 0 8                      | -729-                                     | -119-7                               |   | IND OCCOR   | )                          |                                      |
| R740 1-249-429-11<br>R741 1-249-429-11<br>R742 1-249-429-11  | CARBON<br>CARBON<br>CARBON<br>CARBON                        | 100<br>10K<br>10K<br>10K               | 5%<br>5%<br>5%<br>5%    | 1/4W<br>1/4W<br>1/4W<br>1/4W | F                        |        | , name   |                          |   |                                      | ESISTOR>  |   |                            |                                      |
| R744 1-249-441-11<br>R744 1-249-429-11<br>R745 1-249-429-11<br>R746 1-215-902-11   | CARBON CARBON CARBON METAL OXIDE                            | 100K                                   | 5%<br>5%<br>5%<br>5%    | 1/4W<br>1/4W<br>1/4W<br>1/4W |                          |        | R1702  | 1 1-<br>2 1-<br>3 1-     | -249-<br>-249-<br>-249-                   | 413-1                                | 1 CARBON<br>1 CARBON<br>1 CARBON<br>1 CARBON<br>L CARBON  | 5.6<br>470<br>470<br>470<br>470                               | 5%<br>5%                   | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |
| R747 1-247-725-11<br>R748 1-247-713-11<br>R749 1-215-902-11  | CARBON<br>CARBON<br>METAL OXIDE                             | 10K<br>1K                              | 5%<br>5%<br>5%          | 1/4W<br>1/4W                 |                          |        | R1705<br>R1706<br>R1707                        | l -<br>1 -               | 249-<br>247-:                             | 383-0C                               | CARBON<br>CARBON  | 180<br>47K<br>150   | K 5%                       | 1/4W<br>1/4W<br>1/4W                 |
| R750 1-249-400-11<br>R751 1-247-887-00<br>R752 1-247-887-00  | CARBON CARBON   | 39<br>220K<br>220K                     | 5%<br>5%<br>5%          | 1/4W<br>1/4W<br>1/4W         | r<br>F                   |        | R1708<br>R1709<br>R1710                        | Î-<br>1-                 | 249-                                      | 137-11<br>129-11<br>138-11           | CARBON<br>CARBON  | 47K<br>10K  | 5%<br>5%                   | 1/4W<br>1/4W                         |
| <var< td=""><td>ABLE RESISTOR&gt;</td><td></td><td></td><td>1/4W</td><td></td><td></td><td>R1711<br/>R1712<br/>R1713<br/>R1714</td><td>1-<br/>1-<br/>1-</td><td>249-4<br/>249-4<br/>249-4</td><td> 29-11<br/> 29-11<br/> 29-11<br/> 29-11</td><td>CARBON<br/>CARBON<br/>CARBON</td><td>56K<br/>10K<br/>10K<br/>10K<br/>10K</td><td>5%<br/>5%<br/>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W<br/>1/4W</td></var<> | ABLE RESISTOR>  |  |                         | 1/4W                         |                          |        | R1711<br>R1712<br>R1713<br>R1714               | 1-<br>1-<br>1-           | 249-4<br>249-4<br>249-4                   | 29-11<br> 29-11<br> 29-11<br> 29-11  | CARBON<br>CARBON<br>CARBON  | 56K<br>10K<br>10K<br>10K<br>10K                               | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W         |
| RV707 1-230-641-11<br>RV708 1-230-798-11<br>RV709 1-230-641-11   | RES, ADJ, META<br>RES, ADJ, META                            | L GLAZE<br>L GLAZE                     | 90M<br>2.2M             |                              |                          |        | R1715<br>R1716<br>R1717                        | 1-7<br>1-7<br>1-7        | 249-4<br>249-4<br>249-4                   | 29-11<br>38-11<br>29-11              | CARBON<br>CARBON<br>CARBON  | 10K<br>10K<br>56K<br>10K                                      | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W         |
| *******************<br>*1-629-148-11   | Y BOARD   | ******                                 | *****                   | *****                        | ***                      | ****   | R1718<br>R1719<br>R1720                        | 12                       | 249-4                                     | 29-11<br>17-11<br>29-11              | CARBON<br>CARBON  | 10K<br>1K   | 5%<br>5%                   | 1/4W<br>1/4W                         |
|  | *******<br>CITOR>   |  |                         |                              |                          | -      | R1721<br>R1722<br>R1723                        | 1-2<br>1-2<br>1-2        | 149-4<br>149-4<br>149-4                   | 29-11<br>29-11<br>29-11              | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON  | 10K<br>10K<br>10K<br>10K                                      | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W         |
| C1702 1-102-978-00<br>C1703 1-102-978-00   | CERAMIC 0.<br>CERAMIC 22                                    | 20MF<br>01MF<br>20PF<br>20PF           | 20<br>5%<br>5%<br>20    | 5<br>5<br>5                  | 5 V<br>O V<br>O V<br>O V |        | R1725<br>R1726<br>R1727<br>R1728<br>R1729      | 1-2<br>1-2<br>1-2<br>1-2 | 47-89<br>47-89<br>49-43                   | 91-00<br>91-00<br>91-11<br>97-11     | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON  | 10K<br>330K<br>330K<br>47K<br>47K<br>100                      | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W         |
| C1707 1-124-120-11 E<br>C1710 1-101-884-00 (   | ELECT 1M<br>ELECT 22<br>ERAMIC 56<br>ERAMIC 56              | OMF<br>PF                              | 20<br>20<br>5%<br>5%    | % 2<br>5                     | 0V<br>5V<br>0V           |        | R1730<br>R1731<br>R1732<br>R1733               | 1-2<br>1-2<br>1-2<br>1-2 | 49-40<br>19-41<br>19-41<br>19-40<br>19-40 | 15-11<br>7-11<br>7-11<br>9-11        | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON  | 100<br>1K<br>1K<br>220<br>220                                 | 5%<br>5%<br>5%<br>5%       | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |
| <pre></pre>  |   |  |                         |                              |                          |        |  |                          |   |                                      | CARBON  |   | 5%                         | 1/4W                                 |
| D1701 8-719-936-56 D<br>D1702 8-719-936-56 D<br>D1703 8-719-936-56 D   | IODE 1SS119<br>IODE DAN209S<br>IODE DAN209S<br>IODE DAN209S |  |                         |                              |                          | -      | 0V1700   | 1 00                     | 0.00                                      |                                      | ABLE RESIS  |   |                            |                                      |
| D1704 8-719-936-56 D D1705 8-719-933-28 D D1706 8-719-933-28 D D1707 8-719-911-19 D  | IODE DAN209S IODE DAP209S IODE DAP209S IODE 1SS119          |  |                         |                              |                          |        | RV1700<br>RV1701<br>RV1702<br>RV1703<br>RV1704 | 1-22<br>1-22<br>1-22     | 8-99!<br>8-99!<br>8-99!                   | 5-00<br>5-00<br>5-00                 | RES, ADJ, (RES, AD, | CARBON 22<br>Carbon 22<br>Carbon 22                           | K<br>K                     |                                      |
| D1708 8-719-911-19 D   | ODE ISSII9  |  |                         |                              |                          | i R    | V1705<br>V1706                                 | 1-22<br>1-22             | 8-999<br>8-999                            | -00                                  | RES, ADJ, (<br>RES, ADJ, (  | CARBON 470  | )K<br>)K                   |                                      |

REMARK

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|  |  |   |  |  |  |   |   |   | V  | W                               | Y                    |   | J  | ΧΔ    |
|--|--|---|--|--|--|---|---|---|--|---------------------------------|----------------------|---|--|-------|
| REF.NO: PART N   | 10.  | DESCRIPTIO  | N  |  |  | REMARK  | REF.NO.   | PART NO.  | DESCRIPT   | ION                             | _                    | _  _  | REMA   | .RK   |
| RV1707 1-237-<br>RV1708 1-228-<br>RV1709 1-228-<br>RV1710 1-228-   | -995-00<br>-995-00   | RES, ADJ, C<br>RES, ADJ, C<br>RES, ADJ, C<br>RES, ADJ, C  | ARBON 22<br>ARBON 22   | :K<br>:K   |  |   | W2  | *1-565-482-11<br>*1-564-506-11  | PLUG, CON  |                                 | )                    |   |  | ***   |
| ¥1−563−  | -720-11<br>-720-11   | NECTOR><br>Socket, con<br>Socket, con   | NECTOR (   | PC BC  | DARD) 9P   |   | ;<br> <br>  | *1-629-150-11   | Y BOARD *******  |                                 |                      |   |  |       |
| *1-629-  |  | **************************************  | *******  | ****   | ******   | *******                                       |   | 1-124-499-11<br>1-102-125-00  |  | 1MF<br>0.004                    | 7MF                  | 20%<br>10%  | 50V<br>50V   |       |
| C1401 1-136-<br>C1102 1-124-<br>C1403 1-102-<br>C1404 1-124-<br>C1405 1-123-   | -169-00<br>-153-00<br>-478-11<br>-074-00<br>-478-11  | FILM<br>ELECT<br>CERAMIC<br>ELECT -   | 0.22MF<br>0.01MF<br>100MF<br>0.001M<br>100MF   | F  | 5%<br>5%<br>20%<br>10%<br>20%<br>20%                         | 50V<br>50V<br>25V<br>50V<br>25V<br>50V<br>50V | Q1500<br>Q1501  | <tr. 8-729-119-78="" 8-729-900-63<="" td=""><td>IC CX2302<br/>ANSISTOR&gt;<br/>TRANSISTO<br/>TRANSISTO</td><td>R 2SC2785<br/>R 2SC2785</td><td>-HFE</td><td></td><td></td><td></td></tr.> | IC CX2302<br>ANSISTOR><br>TRANSISTO<br>TRANSISTO         | R 2SC2785<br>R 2SC2785          | -HFE                 |   |  |       |
| D1400 8-719-<br>D1401 8-719-   | -911-19  | DIODE 18811<br>DIODE 18811  |  |  |  |   | R1500<br>R1501<br>R1502<br>R1503<br>R1504                                     | <pre></pre>   | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 47K<br>47K<br>47K<br>10K<br>47K | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W                                | F  |       |
| IC1400 8-759-  | <1C><br>-135-80  |   |  |  |  |   | R1505   | 1-249-437-11<br><co!< td=""><td>CARBON</td><td>47K</td><td>5%</td><td>1/4W</td><td></td><td></td></co!<>  | CARBON   | 47K                             | 5%                   | 1/4W  |  |       |
|  | 119-78<br>119-76<br>119-78   | NSISTOR> TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR  | 2SA1175-<br>2SC2785-   | HFE<br>HFE   |  |   | *****   | *1-565-481-11<br>**************<br>*1-629-153-11  | ********   |                                 |                      | -   | *****  | ***   |
| R1400 1-249-<br>R1401 1-249-<br>R1402 1-247-<br>R1403 1-247-<br>R1403 1-247-<br>R1404 1-249-<br>R1406 1-249-<br>R1406 1-249-<br>R1408 1-249-<br>R1409 1-249-<br>R1410 1-249-<br>R1411 1-249-<br>R1412 1-249-<br>R1413 1-247-<br>R1414 1-249-<br>R1416 1-249-<br>R1417 1-249-<br>R1418 1-249-<br>R1419 1-249-<br>R1419 1-249-<br>R1419 1-249- | 437-11<br>895-00<br>903-00<br>438-11<br>433-11<br>411-11<br>433-11<br>411-11<br>429-11<br>426-11<br>411-11<br>429-11<br>429-11<br>429-11<br>429-11<br>433-11<br>433-11<br>440-11 | CARBON | 47K<br>680<br>470K<br>1M<br>56K<br>22K<br>330<br>22K<br>330<br>10K<br>220<br>5.6K<br>330<br>150K<br>10K<br>22K<br>68K<br>82K<br>100K | 522<br>522<br>522<br>522<br>522<br>522<br>522<br>522<br>522<br>522 | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |   | C1300<br>C1301<br>C1302<br>C1303<br>C1304<br>C1305<br>C1306<br>C1307<br>C1308 | *1-568-106-11<br>****************<br>*1-629-151-11  | XA BOARD ********  |                                 | MF                   | 5%<br>5%<br>1PF<br>0.5PF<br>0.5PF<br>5%<br>5%<br>20%<br>10% | 50V<br>50V<br>50V<br>50V<br>50V<br>50V<br>50V<br>50V<br>50V<br>50V | ***   |
|  | <con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10 mg</td></con<>                          | NECTOR>   |  |  |  |   |   |   |  |                                 |                      |   |  | 10 mg |





The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

|                | 5  | 5 D A A S + S M + C      |                         |                               | מראיטה     | IBEE NO       | DART NO  | Vicion i Dation                |   |                      | DEVICE     |
|----------------|--|--------------------------|-------------------------|-------------------------------|------------|---------------|--|--------------------------------|---|----------------------|------------|
| REF.NO.        | PART NO.   | DESCRIPTIO               | IN<br>                  |                               | HEMAKK     | KEF.NU.       | PART NO.   | DESCRIPTION                    |   |                      | REMARK<br> |
| CUO            |  | MMER>                    | D I WYCD                |                               |            | 01601         | 8-729-119-78<br>8-729-119-78                                     | TRANSISTOR 25                  | C2785-HFE   |                      |            |
| CV3<br>CV4     |  | CAP, VAR, I              | RIMMER                  |                               |            | <b>Q</b> 1002 | 0-129-119-10   | TRANSISION 23                  | 10210J-HFE  |                      |            |
|                | <c01< td=""><td>1&gt;</td><td></td><td></td><td></td><td> <br/> </td><td><res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<></td></c01<>  | 1>                       |                         |                               |            | <br>          | <res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<> | ISTOR>                         |   |                      |            |
| 1.1300         | 1-408-429-00   |                          | 470UH                   |                               |            | R1601         | 1-247-897-11<br>1-249-415-11                                     | CARBON                         | 560K 5%<br>680 5%<br>470 5%                       | 1/4W<br>1/4W         |            |
| L1301<br>L1302 | 1-408-429-00<br>1-408-429-00   | INDUCTOR INDUCTOR        | 470UH<br>470UH<br>470UH |                               |            | R1603         | 1-249-413-11<br>1-249-403-11                                     | CARBON                         | 68 57   | 1/4W<br>1/4W         |            |
| L1303          | 1-408-429-00   | INDUCTOR                 | 470UH                   |                               |            |               | 1-249-428-11   |                                |   | 1/4W<br>1/4W         |            |
|                | <tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R1606</td><td>1-249-415-11<br/>1-249-413-11<br/>1-249-428-11</td><td>CARBON</td><td>680 5%<br/>470 5%<br/>8.2K 5%<br/>470K 5%<br/>560K 5%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tra<> | NSISTOR>                 |                         |                               |            | R1606         | 1-249-415-11<br>1-249-413-11<br>1-249-428-11                     | CARBON                         | 680 5%<br>470 5%<br>8.2K 5%<br>470K 5%<br>560K 5% | 1/4W<br>1/4W<br>1/4W |            |
| Q1300          | 8-729-119-78<br>8-729-900-89   | TRANSISTOR               | 2SC2785-H               | FE                            |            | ¦ R1608       | 1-247-895-00<br>1-247-897-11                                     | CARBON                         | 470K 5%<br>560K 5%                                | 1/4W<br>1/4W         |            |
| Q1302          | 8-729-119-78<br>8-729-119-78   | TRANSISTOR<br>TRANSISTOR | 2SC2785-H               |                               |            | 1             | 1-249-437-11   |                                | 47K 5%  |                      |            |
| Q1304          | 8-729-119-78   | TRANSISTOR               | 2SC2785-H               | FE                            |            | i<br>         |  |                                |   |                      |            |
| Q1305          | 8-729-119-78   | TRANSISTOR               | 2SC2785-H               | FE                            |            |               |  | NECTOR>                        | 400 TO DO   | IDD 7D               |            |
|                | <res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td>i -</td><td>*1-565-483-11<br/>******</td><td>,</td><td></td><td></td><td>*******</td></res<>  | ISTOR>                   |                         |                               |            | i -           | *1-565-483-11<br>******  | ,                              |   |                      | *******    |
| R1301          | 1-249-413-11<br>1-249-415-11   | CARBON<br>CARBON         | 470<br>680              | 5% 1/4W<br>5% 1/4W            |            |               |  | CELLANEOUS                     | *********   |                      |            |
| R1303          | 1-249-415-11<br>1-249-415-11<br>1-249-427-11   |                          | 680<br>6.8K             | 5% 1/4W<br>5% 1/4W            |            | ,<br>1<br>1   | ***  | *******                        |   |                      |            |
| R1305          | 1-249-413-11   | CARBON                   | 470                     | 5% 1/4W                       |            | : A           | 1-544-063-11<br>. 1-237-614-12                                   | RESISTOR ASSY                  | , HIGH-VOI  | TAGE                 |            |
|                | 1-249-413-11<br>1-249-417-11   | CARBON<br>CARBON         | 1 K                     | 5% 1/4W<br>5% 1/4W            |            | S901 A        | . 1-426-145-13   | COIL, DEGAUSS                  | ING<br>(AC POWER)                                 | (1 KEY)              |            |
| R1310<br>R1311 | 1-249-441-11<br>1-249-441-11   | CARBON<br>CARBON         | 100K<br>100K            | 5% 1/4W<br>5% 1/4W            |            | 1             | . 1-451-329-11   |                                |   | 4)                   |            |
|                | 1-249-441-11   | CARBON                   | 100K                    | 5% 1/4W                       |            | 1             | 1-452-032-00<br>1-452-094-00                                     | MAGNET, ROTAT                  | ABLE DISK   | 15MM ø               |            |
| R1320          | 1-249-441-11<br>1-249-429-11   | CARBON                   | 100K<br>10K             | 5% 1/4W<br>5% 1/4W<br>5% 1/4W |            | i<br>!        | 1-452-277-00<br>1-466-076-11                                     | CONTROL UNIT                   | (PVM-14420  | M ONLY)              |            |
| R1322          | 1-249-429-11<br>1-249-429-11<br>1-249-429-11   | CARBON<br>CARBON         | 10K<br>10K<br>10K       | 5% 1/4W<br>5% 1/4W<br>5% 1/4W |            |               | 1-466-113-11   |                                |   |                      |            |
| 111727         | 1-247-427 11   | CARDON                   | 101                     | JA 1744                       |            | !             | 1-543-604-11<br>1-574-389-12                                     | CORE. RING                     |   |                      |            |
|                |  | STAL>                    |                         |                               |            |               | . 8-734-621-05   |                                |   |                      |            |
| X358<br>X443   | 1-567-505-11<br>1-567-504-11   | OSCILLATOR, OSCILLATOR,  | CRYSTAL<br>CRYSTAL      |                               |            | i             | . 8-736-254-05   | (PVM-14<br>PICTURE TUBE        | 42QM/1444Q<br>(A34JHS10)                          | M ONLY)<br>()        |            |
|                |  | NEGEOD.                  |                         |                               |            |               |  |                                | (PVM-14400  | M ONLY)              |            |
| V A 1          | <un><un< td="">*1-565-483-11</un<></un>  | NECTOR>                  | በተ ብርአበር                | DOADN 7D                      |            | *****         | ***********  | ***********<br>ES AND PACKING  | ######################################            | : ******             | *********  |
|                | *1-505-405-11  |                          |                         |                               | ******     | <u> </u>      |  | ***********                    |   |                      |            |
|                | <b>*</b> 1-629-219-11  |                          |                         |                               |            | j<br>F<br>I   | PART NO.   | DESCRIPTION                    |   |                      | REMARK     |
|                |  | ******                   |                         |                               |            | <u> </u>      | 3-786-761-11   | MANUAL, INSTR                  | UCTION  |                      |            |
|                | <cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td><u> </u></td><td>*4-312-246-00<br/>*4-391-866-01</td><td>CUSHION (UPPE</td><td>R) (ASSY)</td><td></td><td></td></cap<>   | ACITOR>                  |                         |                               |            | <u> </u>      | *4-312-246-00<br>*4-391-866-01                                   | CUSHION (UPPE                  | R) (ASSY)   |                      |            |
|                | 1-124-477-11   |                          | 47MF<br>100MF           |                               | 25V<br>25V |               | *4-391-867-01<br>*4-391-897-01                                   | CUSHION (LOWE<br>INDIVIDUAL CA |   | -1444QM (            | ONLY)      |
| C1602          | 1-124-478-11<br>1-124-902-00<br>1-124-499-11   | ELECT                    | 0.47MF<br>1MF           | 20%<br>20%                    | 50V<br>50V |               | *4-391-899-01<br>*4-393-301-01                                   |                                |   |                      |            |
| 01007          | 1 164 477 11   | 22201                    |                         | 201                           |            | i<br>!<br>!   |  | THE TIPORD OR                  | ner,  | * 1174(II            |            |
| . —            | <10>   |                          |                         |                               | •          | !<br>!<br>!   |  |                                |   |                      |            |
| I C 1600       | 8-759-913-11   | IC CX20125               |                         |                               |            |               |  |                                |   |                      |            |
|                | <tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tra<>   | NSISTOR>                 |                         |                               |            |               |  |                                |   |                      |            |

Sony Corporation
Display Products Group

English 91JG0220-4 Printed in Japan ©1989.3

Q1600 8-729-119-76 TRANSISTOR 2SA1175-HFE

# PWW-14400W/14420W/14440W

## SONY. SERVICE MANUAL

## **SUPPLEMENT-1**

File this Supplement with the Service Manual.

#### INTRODUCTION

A and W boards modification

: Indicate modification portion

## AEP Model

PVM-1440QM

Serial No. 2,002,901 and later

Chassis No. SCC-C57A-A PVM-1442QM

Serial No. 2,003,251 and later

Chassis No. SCC-C56A-A

PVM-1444QM

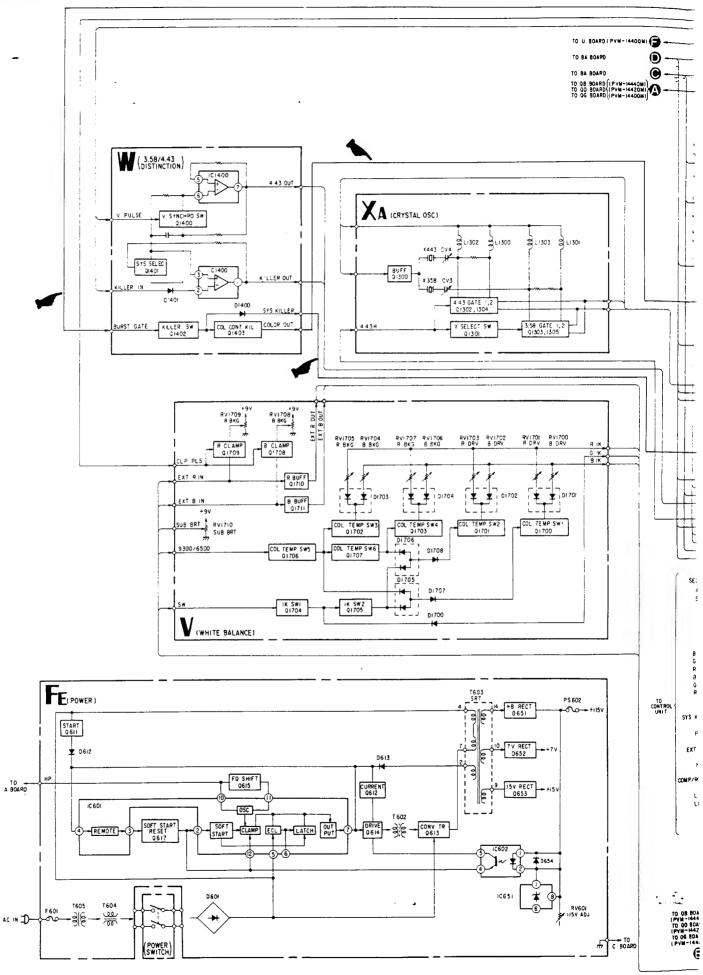
Serial No. 2,001,601 and later

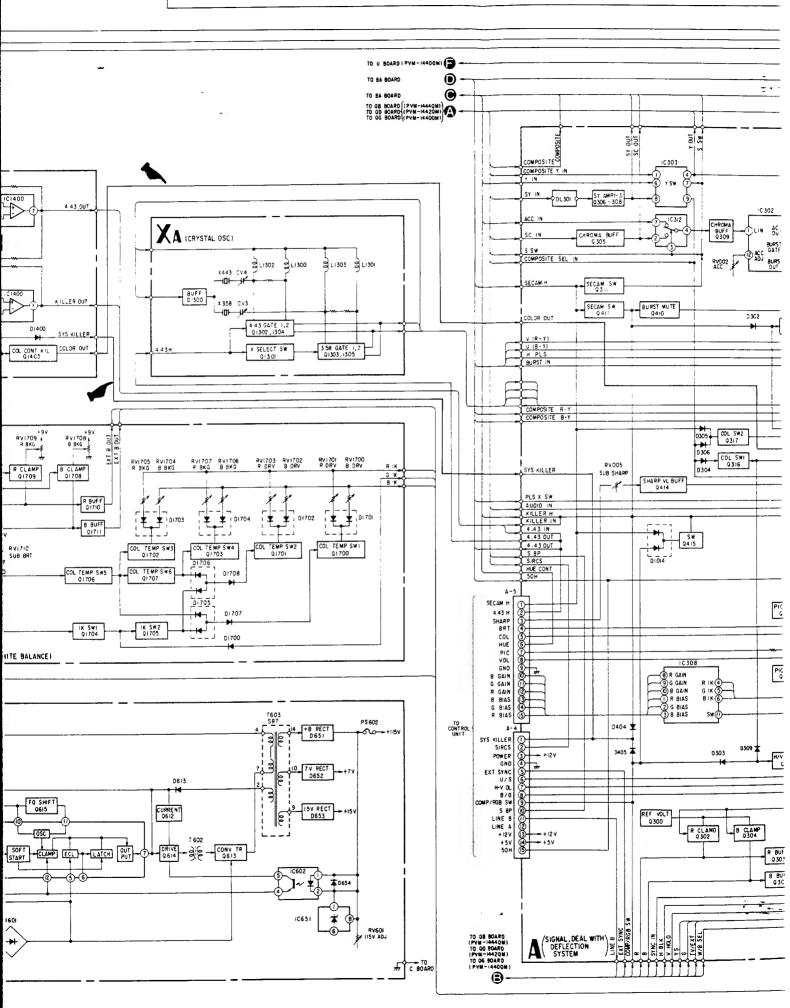
Chassis No. SCC-C55A-A

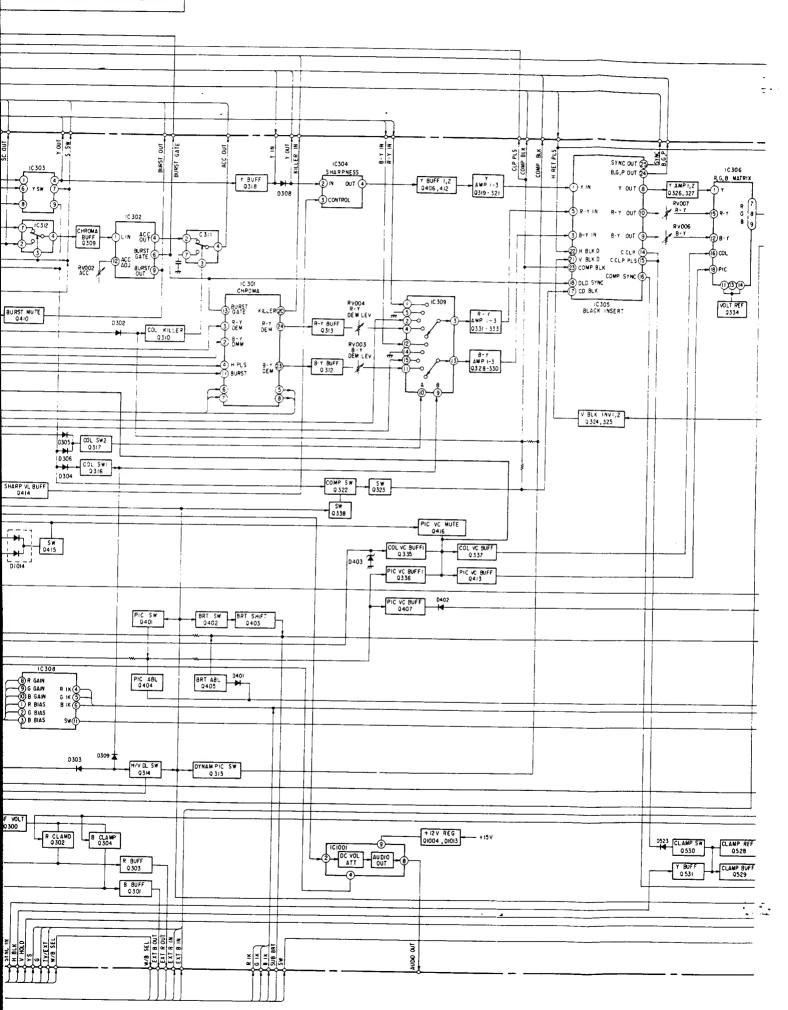


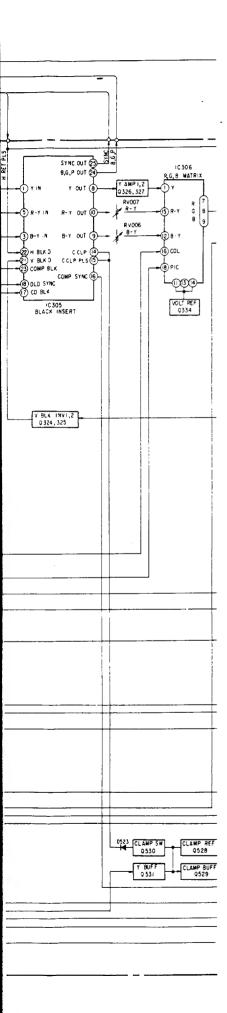
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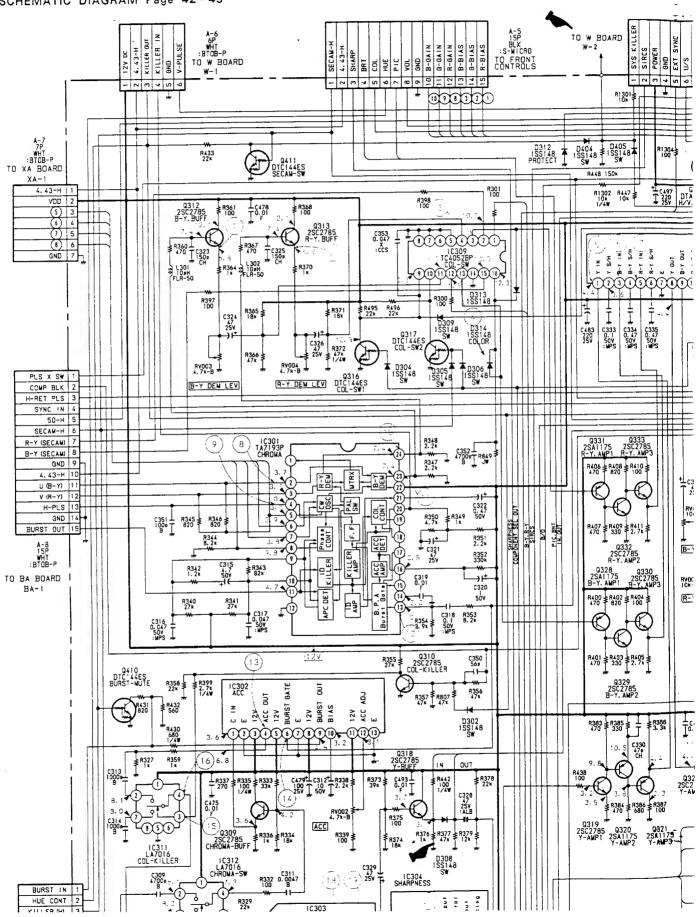


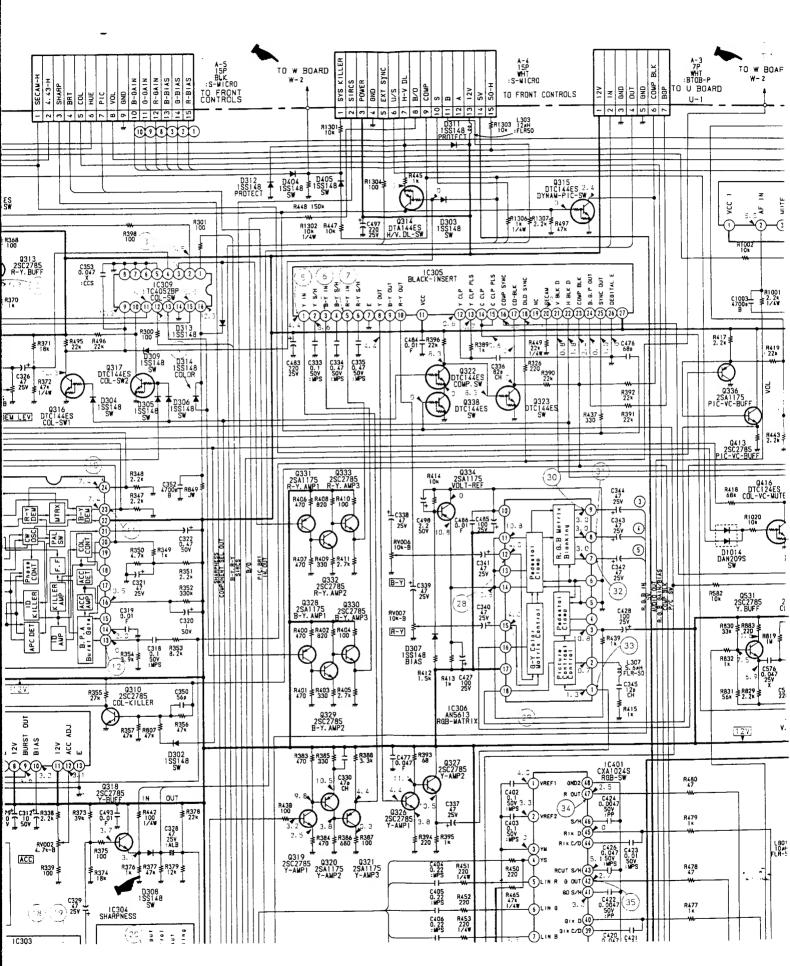






6-5. SCHEMATIC DIAGRAM Page 42-45

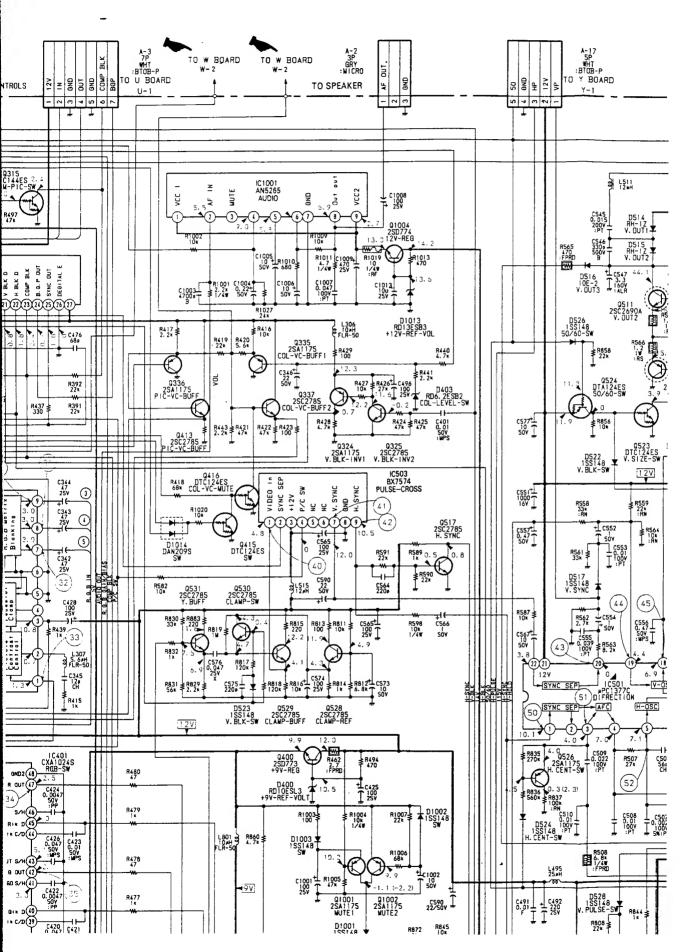


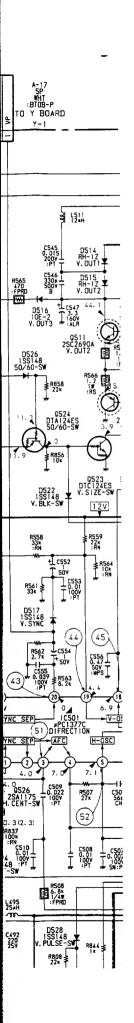


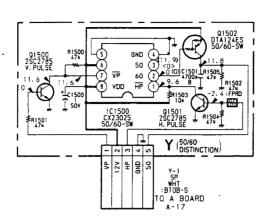
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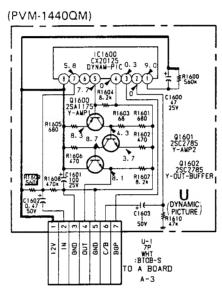
R1412 R14 330 S.

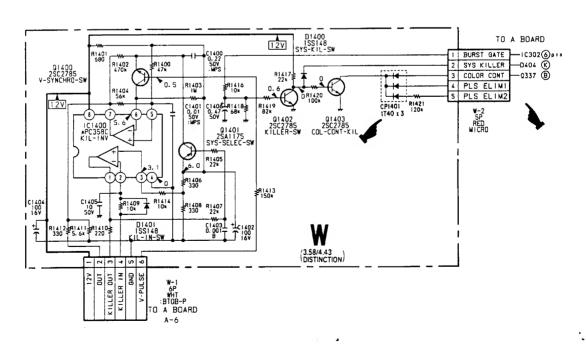
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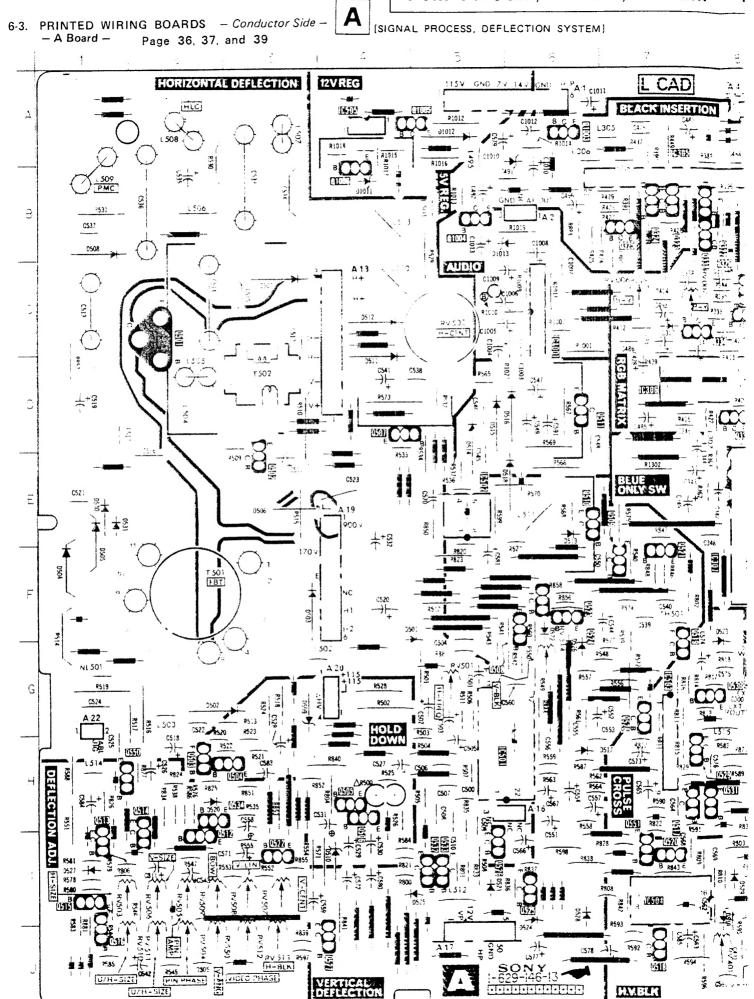


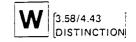




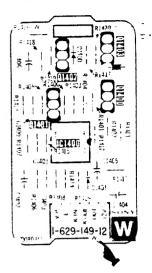


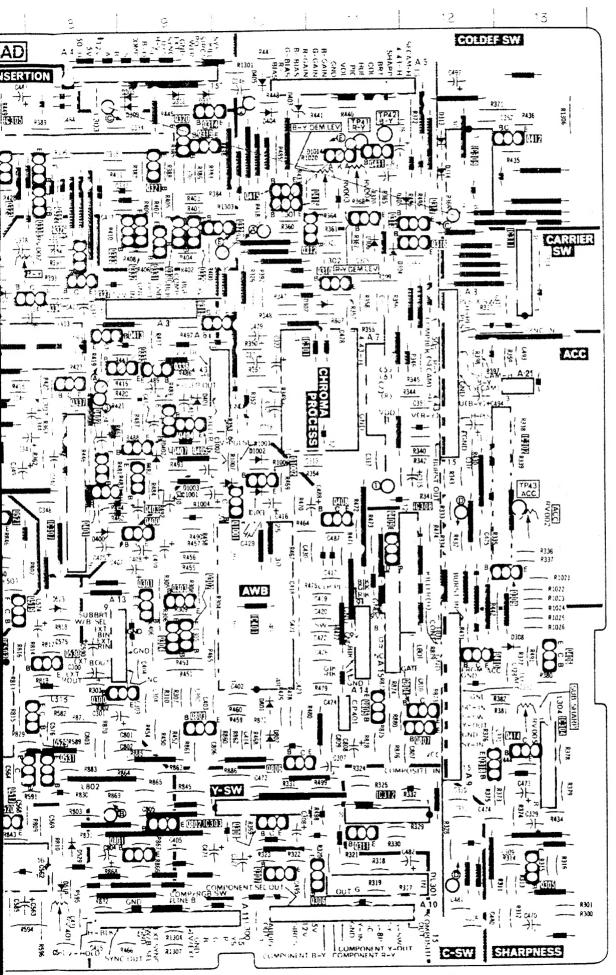






- W Board -





## 7-1, CHASSIS

## Page 71

| REF.NO. PART NO.   | DESCRIPTION  | REMARK | REF.N                      | O. PART NO.  | DESCRIPTION  | REMARK                                  |
|--|--|--------|----------------------------|--|--|---|
| 5 *A-1245-456-A<br>6 *A-1291-616-A<br>7 & 1-439-395-12<br>8 *1-629-149-12<br>9 *1-629-151-11<br>10 *1-629-150-11 | HOLDER, HV CABLE RESISTOR ASSY, HIGH-VOLTAGE BRACKET, HVR CABINET ASSY, BOTTOM FE BOARD, COMPLETE A BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK W BOARD XA BOARD Y BOARD V BOARD U BOARD (PVM-1440QM ONLY) |        | 14<br>15<br>16<br>17<br>18 | *A-1135-564-A<br>*A-1135-573-A<br>*A-1270-249-A<br>*A-1270-248-A<br>*A-1270-248-A<br>*A-1270-246-A<br>*A-1270-247-A<br>*A-1270-247-A<br>*A-1270-245-A<br>4-391-843-32<br>4-391-843-02<br>*3-682-419-01 | BA BOARD, COMPLETE (PVM-1442QM/ 1444QM C QE BOARD, COMPLETE (PVM-1442QM C QG BOARD, COMPLETE (PVM-1440QM C QD BOARD, COMPLETE (PVM-1440QM C QB BOARD, COMPLETE (PVM-1444QM C QF BOARD, COMPLETE (PVM-1444QM C QC BOARD, COMPLETE (PVM-1442QM C QA BOARD, COMPLETE (PVM-1444QM C QA BOARD, COMPLETE (PVM-1440QM C QA BOARD, COMPLETE (PVM-1444QM C QA BOARD, COMPLETE (PVM-1440QM C QA BOARD, C QA BOARD, COMPLETE (PVM-1440QM C QA BOARD, C QA BOAR | NLY) NLY) NLY) NLY) NLY) NLY) NLY) NLY) |

## 7-2. PICTURE TUBE

## Page 72

| REF.NO. PART NO. DESCRIPTION REMARK   REF.NO. PART NO. DESCRIP | TION REMARK  |
|--|--|
| 55 4-391-824-01 JOINT  | AIN), CV VOL EAR LID), CV.VOL GAUSSING ), TAPPING ROTECTION EAR SY, TOP YLON AC CORD WER AD WIRE DISK; 10MM Ø ROTATABLE DISK; 15MM Ø Y ASSY, CONVERGENCE NG S), CASE, CLAW |

# SECTION 8 ELECTRICAL PARTS LIST

| - A BOARD- Pag   |                   |        | Page                    | 93                             |                               |                     |                |                      |        |
|--|-------------------|--------|-------------------------|--------------------------------|-------------------------------|---------------------|----------------|----------------------|--------|
| Ref.No. Part No.   | Description       | Remark | Ref.No                  | . Part No.                     | Description                   |                     |                |                      | Remark |
| *A-1291-616-A  | A BOARD, COMPLETE |        | R1416<br>R1417<br>R1418 | 1-249-433-11                   | CARBON<br>CARBON<br>CARBON    | 10K<br>22K<br>68K   | 5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W |        |
| *4-329-153-00<br>*4-341-751-01<br>*4-341-752-01<br>*4-363-404-00 | EYELET            |        | R1419<br>R1420<br>R1421 | 1-249-441-11<br>1-247-881-00   |                               | 82K<br>100K<br>120K | 5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W |        |
| 4-363-414-00   | SPACER, MICA      | •      | W1<br>W2                | *1-565-482-11<br>*1-564-508-31 | CONNECTOR, BO<br>PLUG, CONNEC |                     | BOARD          | 6P                   |        |

## Page 88

| Ref.No.                              | Part No.   | Description  |                                |  |                                      | Remark   |  |
|--------------------------------------|--|--|--------------------------------|--|--------------------------------------|--|--|
| R361<br>R362<br>R363                 | 1-249-405-11<br>1-249-410-11<br>1-249-432-11<br>1-249-417-11                                 | CARBON<br>CARBON<br>CARBON                               | 100<br>270<br>18K<br>1K        | 5%<br>5%<br>5%<br>5%                   | 1/4W<br>1/4W<br>1/4W                 | -XA BOARD- Page 93   |  |
| R365<br>R366<br>R367<br>R368         | 1-249-432-11<br>1-249-437-11<br>1-249-413-11<br>1-249-405-11                                 | CARBON<br>CARBON<br>CARBON<br>CARBON                     | 18K<br>47K<br>470<br>100       | 5%<br>5%<br>5%<br>5%                   | 1/4W<br>1/4W<br>1/4W<br>1/4W         | *1-629-151-11 XA BOARD<br>******   |  |
| R369<br>R370<br>R371<br>R372<br>R373 | 1-249-405-11<br>1-249-417-11<br>1-249-432-11<br>1-249-465-11<br>1-249-436-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON           | 100<br>1K<br>18K<br>47K<br>39K | 5%<br>5%<br>5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W | CAPACITOR  C1300 1-101-005-00 CERAMIC 0.022MF 50V C1301 1-101-888-00 CERAMIC 68PF 5% 50V C1302 1-101-884-00 CERAMIC 56PF 5% 50V C1303 1-102-942-00 CERAMIC 5PF 1PF 50V C1304 1-102-947-00 CERAMIC 10PF 0.5PF 50V |  |
| R374<br>R375<br>R376<br>R377<br>R378 | 1-249-432-11<br>1-249-405-11<br>1-249-437-11<br>1-249-433-11<br>1-249-430-11<br>1-249-405-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 100<br>1K<br>47K<br>22K<br>12K | 5% % % % % 5 % % 5 % % % % % % % % % % | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W | C1305 1-102-947-00 CERAMIC 10PF 0.5PF 50V C1306 1-102-951-00 CERAMIC 15PF 5% 50V C1307 1-102-951-00 CERAMIC 15PF 5% 50V C1308 1-126-101-11 ELECT 100MF 20% 16V C1309 1-102-125-00 CERAMIC 0.0047MF 10% 50V       |  |

#### -W BOARD- Page 93

\*1-629-149-12 W BOARD

|   | CAP  | ACITOR                                    |   |                               |                                 |
|---|--|---|---|-------------------------------|---------------------------------|
| C1400<br>C1401<br>C1402<br>C1403<br>C1404 | 1-136-169-00<br>1-136-153-00<br>1-126-101-11<br>1-102-074-00<br>1-126-101-11 | FILM<br>FILM<br>ELECT<br>CERAMIC<br>ELECT | 0.22MF<br>0.01MF<br>100MF<br>0.001MF<br>100MF | 5%<br>5%<br>20%<br>10%<br>20% | 50V<br>50V<br>16V<br>50V<br>16V |
| C1405                                     | 1-123-875-11   | ELECT<br>FLECT                            | 10MF<br>0.47MF                                | 20%<br>20%                    | 50 V<br>50 V                    |